

RETURN—Continued.

Birds collected in March, 1888.

ADDITIONAL ARTICLES.

No.	Name	Sex and age.	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Chord of culmen = from cere.	Cere	Tip of bill to center of pupil.	Tip of bill to base of culmen	Base of culmen to cere	Diameter eye	Iris	Tarsus	Middle toe with its claw	Middle claw	Hallux + claw	Claw of hallux	Junior Cl.	Adult Cl.	Weight	Date	
6118	<i>Cardinalis C. superbus</i>	♂ ad.	255	319	102	124	21.5	15	20			26	42	27		38	27	25.8	19	9	14	14		empty of crest 40.8	Mar. 2, 1888	
6119	"	♀ ad.	242	312	101	124	20	13	19			24	38	26		37	27	24.5	17	7.5	15	14		do		
6120	"	♀ ad.	240	322	104	123	19	13	18.5			24	38	26.5		37	27	23.5	18	8.5	15	13		do		
6121	<i>Thryoth. bicolor bairdi</i>	♀ ad.	142	191	60	62	17	11	20							25	18.5	16	4.5	13	5.8			do		
6122	<i>Salpinctes obsoletus</i>	♂ ad.	149	235	74	53	19	14	24							30	22	18	5	15	6			do		
6123	<i>Corvus unalaschkae</i>	♂ ad.	178	286	94	74	15	9	22			24	37	23		37	31	21.5	6.5	15	7			do		
6124	"	♂ ad.	177	281	92	72	14	9	20			24	37	23		36	30	21	6	16	7			do		
6125	<i>Pipilo mac. megalonyx</i>	♂ ad.	221	285	95	110	15	10	17			22	37	25		36	25	27	9.2	22	13	8.5	9		do	
6126	"	♂ ad.	226	292	94	113	14.5	9.3	17			21.5	35	24		39	28	27	9	21	12	8	8		do	
6129	<i>Harpodichthys cristalis</i>	♂ ad.	320	338	109	154	37	31	42			47	64	30		44	33	29	7.5	20	10	6	5.3	23.7	Feb. 20, 1888	
6133	<i>Melanerpes uropygialis</i>	♂ ad.	243	428	135	89	26	32	32			38	54	28		31	22.5	26	10	13	6	8.6	8.4		Mar. 8, 1888	
6134	<i>Sayornis cinerea</i>	♂ ad.	192	286	96	87	16	12	22							25	18	16	5.6	14	7			Mar. 22, 1888		
6135	<i>Bubo virg. subarcticus</i>	♂ ad.	525	1300	377	222	28	24	46	41	18	52	85	62	22	118	58	66	26	42	24	28	23.6		Mar. 26, 1888	
6136	<i>Passerculus A. alaudinus</i>	♂ ad.	140	226	71	54	10.5	7	12			16.5	26	19		27.5	20	19	4.8	16	7			Weight 2 1/2 lbs. Novis.		
6137	<i>Corvus cryptoleucus</i>	♂ ad.	290	1170	385	242	64	45	72			82	116	59	12	106	60	64	20	49	23.5	18	16		1 lb. 2.5	"
Height of bill at base, 27. Graduation of tail, 53.																										
6138	<i>Sturnella neglecta</i>	♂ ad.	260	420	129	83	34	23	36			42	61	32		52	39	35	9	30	13.5	8	7		Mar. 27, 1888	
6139	<i>Pipilo aberti</i>	♀ ad.	234	291	94	118	16		17							39	29	26	8.5	21	11			Mar. 28, 1888		
6140	<i>Pipilo maculatus megal.</i>	♂ ad.	222	288	92	110	15		17							38	28	26	9	23	13			" " "		
6141	<i>Sayornis Sayi</i>	♂ ad.	201	342	112	90	17	12	23							28	22	17	7	14	8			" " "		
6142	<i>Helgidactylus verripennis</i>	♂ ad.	134	304	110	52	6.5	4.5	12.5							20	11	14.7	4.7	16	4.7			" " "		
6143	<i>Thryothorus bicolor bairdi</i>	♂ ad.	144	189	61	65	14	10	19							24	17.5	16	5	13	6			" " "		
6144	<i>Spizella s. arizonae</i>	♂ ad.	140	222	72	64	10		11							23	17.5	16	4.5	12	5.7			" " "		
6145	<i>Amphispiza bilineata</i>	♂ ad.	146	216	70	67	10.5	7	11							23	19	17	5	13.5	7			" 31 "		
6146	<i>Vireo pusillus</i>	♂ ad.	129	182	58	55	10	7	15							25	18.5	13	4	10.5	4.7			Iris hazel.	Apr. 2, 1888	
6147	<i>Helminthophila luciae</i>	♂ ad.	113	180	60	46	8.7	6.8	11							21.5	16.2	13	3.8	10	4.1			" " "		
6148	<i>Carpodacus frontalis</i>	♀ ad.	159	250	79	65	12		13.5							28	19	19	5.2	14	6			Greenish on under.	" " "	
6149	<i>Spizella soc. arizonae</i>	♂ ad.	151	234	78	70	10		10.5							23	16.5	17.5	4.8	13	6			Head plain	" " "	
6150	"	♀ ad.	145	226	74	66	9.2		10							24	17	16	4.5	13	5.5			Head striped	" " "	
6151	<i>Poeyetes gramineus confinis</i>	♂ ad.	157	264	85	67	12.2		13							26	20	19	5.8	14	7			" " "		
6152	<i>Oroscoptes montanus</i>	♂ ad.	223	315	100	95	18	11	24							43	30.5	25	6	17.5	8			Iris yellow	" " "	
6153	"	♂ ad.	230	329	103	97	18.5	13	26							45	32	25	7	16.5	8			" " "	" " "	

RETURN—Continued.

ADDITIONAL ARTICLES.

Birds collected in Febr. 1888

No.	Name.	Sex	Date.	Length.	Alar expanse.	Wing.	Tail.	Culmen.	Nostril.	Gape.	Chord of culmen and cere.	Cere.	Ext. of bill to center of pupil.	Ext. of bill to back of head.	Frontal feathers to occiput.	Diameter of eye.	Tibia.	Tarsus.	Middle toe with its claw.	Middle claw.	Hallux with its claw.	Claw of hallux.	Inner claw.	Outer claw.	Weight, lbs.
6082	<i>Parus inorn. griseus</i>	♀ ad.	Febr. 18, 1888	142	222	70	61	12	9.8	13			18	31	19		27	21	16	5	14	6			
6083	"	♂ ad.	"	146	233	74	60	12.5	9	14							28	21	16	5.8	15	6.8			
6084	"	♀ ad.	"	138	222	70	61	12	9	13.5							27.5	21	16.3	5.4	14	6			
6085	<i>Pipilo mac. megalon.</i>	♀ ad.	"	224	285	92	111	14		16			20	36	25		36	29	26	8	20.5	11.5			Irises, cherry red.
6086	"	♂ ad.	"	224	287	91	112	14.7		17			21.5	37	26		39	28	28	9	22	12.8			
6087	"	♀ ad.	"	215	278	87	103	14		18			22	36	25.5		38.5	27.5	28	10	23	14			
6088	<i>Parus wollweberi</i>	♀ ad.	"	129 199	197	63	61	9	6.6	10.5			14	26	18		23	17.8	13	4.7	12	5.8			
6089	"	♂ ad.	"	138	211	68	62	9	6.7	10.5			15	26	18		24.5	18	13	4.8	12.5	6			
6090	<i>Sitta car. aculeata</i>	♂ ad.	"	159	282	94	54	20.7	15.4	24							25	17.5	21	7	21	10			
6091	<i>Colaptes cafer</i>	♂ ad.	"	344	550	175	133	38		43			52	75	38		47	30	34	11	17	7			
6092	"	♂ ad.	"	344	530	178	138	39		44			54	76	37		44	29	32	11	17	7.5			
6093	"	♀ ad.	"	326	525	172	135	40		44			54	78	37		64	78	37	45	30	33	12	16.5	8
6094	<i>Aphelocoma woodhousei</i>	♂ ad.	"	312	412	137	144	28		33							53	40	32	9.5	25	12			
6095	<i>Cyanocitta p. macrolopha</i>	♀ ad.	"	308	460	147	137	29		33							57	44	31	8.5	25	12			
6096	"	♀ ad.	"	311	450	148	141	29		33							55	43.5	31	9	26	12			
6093	<i>Colaptes cafer</i>	♀ ad.	"	336	535	173	135	40		44			54	78	37		45	30	33	12	16.5	8			
6098	<i>Melanerpes uropygialis</i>	♂ ad.	Febr. 24, 1888	264	447	138	94	32		37			44	62	30		37	25	29	10.5	14	7			
6099	<i>Cardinalis c. superba</i>	♂ ad.	"	251	309	107	128	21	13.5	20							39	27	24	7	18	8.5			
6100	<i>Phainopepla nitens</i>	♂ ad.	"	215	316	104	105	12	8	17							29	20	18	5	13	5.2			
6101	<i>Ceryle alcyon</i>	♂ ad.	"	339	560	165	99	56		71			72	95	42		39	11	24	8.5	12	6.8			
6102	<i>Pipilo aberti</i>	"	"	234	291	92	115	15.5		16								31	27	8	18	7.5			
6103	<i>Zonotrichia intermedia</i>	♀ ad.	"	177	257	80	78	11		12.5							31	23	21	4.2	15.3	7.5			
6104	<i>Eremophila alpestris</i>	♀ ad.	"	168	300	95	64	11.7	8	14.5							27	22	16	5.1	16.5	9			
6105	<i>Phainopepla nitens</i>	♀ ad.	"	206	297	94	99	11.5	7.8	16.5							2	20	18.5	5	12.3	5.3			
6106	"	♀ ad.	"	206	300	95	95	12	7.5	18							27.5	19	19	5.5	12.5	5.5			
6107	"	♂ ad.	"	207	302	105	98	11	7.2	16							27	18.5	18	5	12	5			
6108	"	♂ ad.	"	213	307	96	101	12.5	7.5	18							28.5	18	18.5	5	12	5.2			
6113	<i>Amphispiza bilineata</i>	♂ ad.	March 2, 1888	145	215	69	69	11.5	7.5	11.5			16	27	19		24	20	18	4	13	6			
6114	<i>Turdus ualashchkae</i>	♂ ad.	"	177	287	92	73	14	8.7	20			24	36	24		37	30	23	6	16	7.2			
6115	<i>Spizella socialis arizonae</i>	♂ ad.	"	145	241	77	69	10.5	7	11.5			16	26	18		25	18	17	4.2	13.5	6			
6116	<i>Zonotrichia intermedia</i>	♀ ad.	"	165	234	75	73	11.5		13							28	22			15.5	7.7			
6117	<i>Peulurus uropygialis</i>	♂ ad.	"	276	460	142	104	33	26.5	38			46	62	31		38	25	28	10.8	16	7			Irises, red.

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Name	Length to end of claw	Length	Alar expanse	Wing	Tail	Culmen from front of orbit	Culmen from tip of bill	Culmen measured from nostril.	Gape	Height of bill at extreme base	Width at extreme base	Foremost width	% of bill to center of pupil	% of bill to occiput.	Base of culmen at front of orbit to head of orbit	Head of orbit to end of middle claw	Tibia	Base posterior	Tarsus	Middle toe with its claw.	Middle claw	Hallux with its claw	Claw of hallux	Diameter of eye.	Weight, oz.	Sex and age.	
6302	<i>Greenotus occid.</i>	²⁰⁰ ad.	174	312	100	46	27			26.5				37	48	22.5	75	37	15	23	20.5	4.5	7	2			♀ ad.	
6303	"	¹⁹⁹ ad.	177	315	¹⁰² 102	⁴⁸ 48	²⁴ 24			23.5				34	45	21.5	77	36	16	22	20	5	7.5	2.6			♀ ad.	
6304	"	²⁰⁶ ad.	174	315	100	45	25			24.5				35	46	23	83	39	14	24	20	4.5	7.5	2.2			♀ ad.	
6305	"	²⁰⁸ ad.	180	321	103	49	26			26				36	48	23	83	39	13	24	20	4	8	2.3			♀ ad.	
6306	"	²⁰³ ad.	174	315	100	46	24.5			24				35	46	22.5	80	38	13	23	20	4.5	7	2.2			♂ ad.	
6307	"	¹⁸⁹ ad.	163	300	97	44	22			21.5				33	44	22	74	35	12	21.5	18.5	4	7	2.2			♂ ad.	
6310	<i>Araschnia</i>	²⁰² ad.	420	644	191	86	42	50	33	5	2	17	16	19	67	89	47	134	64	12	33	45	8	14	3.9	7.5	11	♂ ad.
6313	<i>Actitis macularia</i>	²²⁷ ad.	197	345	108	54	25			28				37	48	25	88	40	12	26	23	4.2	9	2.8			♀ ad.	
6324	"	³²² ad.	195	335	107	53	22			15	26			35	47	26	84	38.5	9	23	22.5	4	8	2.5			♂ ad.	
6325	"	³²⁴ ad.	199	342	110	55	24.5			17	28			36	49	26	86	40	8	25	22	4	7.5	2.6			♀ ad.	
6331	<i>Nycticorax n. naevius</i>	⁸²⁰ ad.	645	1165	327	132	77	^{3 plume} 186	55	103	24	21		101	143	68	295	125	35	79	89	16.5	56	21	15	28oz.		♀ ad.
6356	"	⁸⁷² ad.	673	1175	320	126	70	^{3 plume} 180	58	111	24	19		108	152	78	315	138	41	87	95	15.5	58	21	24oz.			
6360	<i>Symphemia simpalms</i>	♀ ad.	Measurements on a special table of this species																									
6378	<i>Fulica americana</i>	⁵³⁰ ad.	358	648	184	57	40			14	34			44	63	32	125	92	21	56	79	13	33	8			13oz.	
6379	<i>Ardea virescens</i>	⁶¹⁰ ad.	492	740	206	77	59			48	80			80	107	49	²²² 85	20	53	56	9.5	38	12.5			8½oz.		
6380	"	⁶²⁵ ad.	508	748	212	84	59			48	81			80.5	110	49	190	83	20	54	60	11	38	13			8oz.	
6381	"	⁶⁷⁵ ad.	565	885	192	77	58			47.5	78			77	107	50	188	78	20	51	56	9.5	36	12.5			8oz.	

RETURN—Continued.

ADDITIONAL ARTICLES.

ADDITIONAL ARTICLES.

No.	Name	Sex and age.	Length.	Alar expanse.	Wing	Tail	Culmen	Nostril	Gape.	Chord of culmen + cere together	Cere	Tip of bill to center of pupil	Tip of bill to base of culmen	Base of bill to occiput	Vibria	Tarsus	Middle toe with its claw	Middle claw	Hallux with its claw	Claw of hallux	Inner claw	Outer claw	Diameter of eye	Weight	Date.
6186	<i>Junco oregonus</i>	♀ ad.	156	240	76	67	12.5		13						28	32	20	7	16	8					April 4, 1888.
6187	<i>Helminthophila luciae</i>	♂ ad.	118	185	60	48	10	7	11.2	Not skinned.			21.5	16	13	4	10	4.2							" " "
6188	<i>Regulus calendula</i>	♂ ad.	118	188	62	49	9.5	6	12	Crown, ruby.			22	20	13	4	11.5	5							" " "
6189	"	♀ ad.	112	172	58	45	9	5.5	11.2	No ruby crown.			22	18.5	11.5	3.7	10	4							" " "
6190	"	♂ ad.	118	182	62	48	9.5	6.2	13	Crown, ruby.			23	19	12	4	11	4.8							" " "
6191	"	♂ ad.	119	190	65	49	9.7	6	12.2	Crown, ruby.			23.5	20	13	4	11	5							" " "
6192	"	♂ ad.	114	182	62	48	9	6	12	Crown, ruby. Not skinned.			23.5	18.5	12.5	4	10.5	5							" " "
6193	<i>Callipepla gambeli</i>	♀ ad.	286	367	118	102	11.5	8	15	32	6	23	37	29	57	31	35	9	13	5					Apr. 11, 1888
6194	<i>Zenaidura macroura</i>	♀ ad.	292	432	142	138	13.8	8	21.5			27	39	28	35	21	25	5.2	15.2	5.7	64	5.8	3.4		" " "
6195	<i>Zenaidura macroura</i>	♂ ad.	317	467	159	151	14.2	9	23			30.5	45	31	36	22	26	6	17	6.5	76	6	4		" " "
6196	<i>Zenaidura macroura</i>	♂ ad.	322	465	160	159	14.5	9.3	23			30	44	30.5	38	22	24	5.2	16	5.4	83	6	4.13		" " "
6197	<i>Zenaidura macroura</i>	♂ ad.	307	464	150	145	14	8.5	21.5			29	41	28.5	39	21	25	4.2	17	6	71	6	4.4		" " "
6198	<i>Zenaidura macroura</i>	♀ ad.	291	445	147	133	15	10.3	23			30	43	31		21.5	26	6	18	7	61	6.3	4.23		" " "
6199	<i>Zenaidura macroura</i>	♂ ad.	315	470	160	149	15	9.5	23			31	45	30.5	39	22	26	5.6	18	5.5	72	6	4.4		" " "
6200	<i>Bubo virginianus subarcticus</i>	♂ ad.	482		346	205	27		45	38	18	49	83	59	116	57	62	26	43	20	26	22	21	11	" " "
6201	<i>Dendroica æ. sonor.</i>	♂ ad.	130	202	65	50	11.5	8	15						25	19	14	4.5	11	5					" " "
6202	"	♂ ad.	128	198	65	49	10	7.5	14						24	18.5	15	4.5	11.5	5.2					" " "
6203	"	♂ ad.	131	200	65	51	11	8	14.5						24.5	18.5	14	4	11	4.5					" " "
6204	<i>Dendroica auduboni</i>	♂ ad.	141	227	74	59	10.8	7	14						26	18	16.5	5.1	12	5.3					" " "
6206	<i>Spizella soc. arizonæ</i>	♂ ad.	147	232	74	66	10.3		11						23	17	17	4.3	13	5.5					" " "
6208	<i>Geothlypis tr. occidentalis</i>	♀ ad.	133	175	56	55	11.5	7.2	12.8						27	20	18	4.7	13	6					" " "
6207	<i>Pyrocephalus rub. mex.</i>	♂ ad.	154	263	85	65	15	9.8	18.5						22	17	14.5	5	10.5	4.5					" " "
6208	<i>Picus vill. harrisi</i>	♂ ad.	243	400	127	90	33		36			42	57	26	33	22	22	10	12	6					" " "
6209	<i>Mniotilta polyglotta</i>	♂ ad.	277	383	122	136	22	14	29			32	49	29	43	35	29	8.5	19	9					" " "
6210	<i>Merula migratoria</i>	♂ ad.	260	416	133	103	23.5	14	30			35	50	30	46	34	29	8	23	10.3					" " "
6211	<i>Icterus cucul. nelsoni</i>	♂ ad.	215	285	94	100	20.5	14	22.5			28	41	23	34	23	21.5	6.1	16	7.5					" " "
6212	<i>Junco (oregonus?)</i>	♀ ad.	152	227	73	64	11.5		12.5						27.5	20.5	19	5	14	7					" " "
6214	<i>Helminthophila luciae</i>	♂ ad.	118	183	60	45	9.8	7	11.7			15	26	17	22.5	16.5	13	3.7	10	4					" " "
6215	"	♂ ad.	116	183	59	45	10	6.2	11						21.5	16	13	3.5	10	4					" " "
6216	"	♀ ad.	112	174	57	44	9.2	6.3	10.5						21	15	12.3	3.1	10	4					" " "
6217	<i>Pipilo aberti</i>	♂ ad.	240	305	99	122	16.5		18						41	30	28	9	21	10.7					" " "
6218	<i>Amphispiza bilineata</i>	♀ ad.	143	209	67	62	10.5		12						26	19.5	17	5	13	6.1					" " "

RETURN—Continued.

Birds Collected in April, 1888.

ADDITIONAL ARTICLES.

No.	Name	Sex and age	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Chord of culmen and cere taken together	Cere	Tip of bill to center of pupil	Tip of bill to base of culmen	Base of culmen to cere	Diameter of eye	Tibia	Tarsus	Middle toe with its claw	Middle claw	Hallux with claw	Claw of hallux	Inner claw	Outer claw	Weight	Date
6154	<i>Salpinctes obsoletus</i>	♂ ad.	153	229	75	59	18	12	23							27	21.5	17.5	4.8	15	6			Apr. 2, 1888	
6155	<i>Pipilo fuscus mesoleucus</i>	♂ ad.	223	305	98	110	16.7	11	17			23	28	25		39	25	24	7	19	8.5	7	6	" "	
6156	<i>Merula polyglottus</i>	♂ ad.	254	354	115	122	18	12	23			28	42	27		41	29	24.5	6.2	18.5	8	5.4	1	" "	
6157	<i>Junco oregonus?</i>	♀ ad.	155	243	77	69	11		12							30	20	19	5.6	15	7			" "	
6158	<i>Spizella socialis arizonae</i>	♂ ad.	149	241	79	68	9.5		10.5							23.5	17	17.5	4.9	12.5	6			" "	
6159	"	♂ ad.	148	236	76	66	9.5		10.5	not skinned						24	17.5	17	5	13	6			" "	
6160	<i>Regulus calendula</i>	♂ ad.	115	183	61	46	10.5	6.2	13							23	18.5	13	3.9	11	5			" "	
6161	"	♂ ad.	110	170	61	46	10	6	12							22	20	13	3.8	11.5	5.2			" "	
6162	"	♂ ad.	115	187	64	48	11	6.6	14							23	19	13	4.5	11	5			" "	
6163	<i>Junco oregonus?</i>	♀ ad.	159	243	81	72	10.7		11.5							39	20	19	5.5	15	7			" "	
6164	"	♀ ad.	160	245	82	72	11		12	not skinned.						38	21	20	5.5	16	7			" "	
6165	<i>Parus wallweberi</i>	♂ ad.	134	206	70	62	9	7	10.5							23	16	14	4.7	12.5	4.5			" "	
6166	<i>Perisoreus ruficeps boucardi</i>	♀ ad.	165	208	66	72	12	8	13			18	30	20.5		19	18.2	5	14	7			" "		
6167	<i>Apeloceros leucurus arizonae</i>	♂ ad.	342	522	171	153	30.5		37	Bill spotted						59	44	33	9	28	12			" "	
6168	"	♂ ad.	356	550	183	160	30		36	Bill black						60	45	35	10.5	28	13			" "	
6169	"	♂ ad.	345	528	175	159	31		37.5	Bill black						58	43.5	33.5	10	28	12.5			" "	
6170	"	♀ ad.	331	475	170	143	30		37	Bill spotted.						42	35	10	27	13			" "		
6171	"	♀ ad.	342	507	168	153	29		33.5	" "						54	41	34	10.5	27	12			" "	
6172	<i>Pipilo fuscus mesoleucus</i>	♂ ad.	227	310	101	109	15	10	16							40	27	25	6.7	19	9	7	6	" "	
6173	<i>Sayornis saya</i>	♂ ad.	197	330	106	85	16	12	23							29	20	16.5	5.2	14	6.8			" "	
6174	<i>Egialitis vociferus</i>	♂ ad.	Measurements on the other table — Water birds																					" "	
6175	"	♀ ad.	do																					" "	
6176	<i>Pipilo maculatus megalonyx</i>	♂ ad.	219	293	94	112	14		17.5							38	27.5	26	9.4	21.5	13			" "	
6177	"	♀ ad.	216	275	87	104	13.7		17.5	Sex positively ♀.						39	28.5	26	8.6	21.5	12			" "	
6178	<i>Colaptes cafer</i>	♂ ad.	346	538	170	132	40	30.5	44	not skinned.						45	31	33	13	18	8			" "	
6179	"	♂ ad.	335	540	166	133	37		43	" "						29.5	32	11.5	15	7			" "		
6180	<i>Helminthophila luciae</i>	♂ ad.	115	182	60	46	10	7		" "						23	16.5	13	3.9	10.2	4.3			" "	
6181	<i>Regulus calendula</i>	♂ ad.	115	182	60	45	10.5	6.5	13							23	19.5	13	4	11	5			April 4, 1888	
6182	<i>Nyctiorax nyctiorax naevius</i>	♂ ad.	See other table for measurements																					" "	
6183	<i>Hylodichla aunalaschkae</i>	♂ ad.	177	287	95	77	13.5	8.8	19							37	28	22	5	16	7			" "	
6184	<i>Dendroica aestiva</i>	♂ ad.	131	200	66	52	11	7.5	13							25	19	15	4.5	11.2	5			" "	
6185	<i>Dendroica auduboni</i>	♂ ad.	150	241	80	66	10.6	7.2	14							27	20	15	4	12	5.2			" "	

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Name	Sex and age	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Chord of cul. and cere together	Cere	Tip of bill to center of pupil	Tip of bill to occiput	Base of bill to occiput	Tibia	Tarsus	Middle toe with its claw	Middle claw	Hallux with its claw	Claw of hallux	Inner claw	Outer claw	Diameter of eye	Weight	Date	
6219	<i>Amphispiza bilineata</i>	♂ ad.	146	217	71	69	11.5	12								18	17	4.4	13	5.8						
6220	<i>Salpinctes obsoletus</i>	♂ ad.	162	242	77	62	20	15	26							28	21.5	19	5	15	6					
6221	<i>Regulus calendula</i> <small>more by error</small>	♀ ad.	116	178	59	47	10	6	13							23	18.5	13	4.3	10.8	5					
6222	<i>Dendroica aestiva</i>	♂ ad.	130	190	65	49	10.5	7	13							24	19	14	4.2	11	5					
6223	<i>Spizella s. arizonae</i>	♂ ad.	141	230	73	64	9.5	10.5				15	25	18	23.5	17	16	4	12	4						
6224	<i>Myiarchus (mag. mex.)</i>	♂ ad.	224	332	105	103	20	16	28			32	45	26	32	23	19	7	16	8.3						
6225	<i>Poliophtila caerulea</i>	♀ ad.	120	160	49	52	11.5	7.6	15	iris hazel	18	28	16	22	18	11.7	3.8	9	4	Bill, 6.0; feet, 4.0; claws, 1.7.				17, 1888		
6226	<i>Dendroica aestiva sonoriensis</i>	♀ ad.	128	191	66	49	11	7.2	14	bande streaked	17.5	28	18	23	18	14	4.5	11.6	5	Ovaries developed				"	"	
6227	"	♀ ad.	123	185	59	45	9.5	7.2	13			17.2	28	18	24	18	14	4.2	11	5				"	"	
6228	<i>Anthus penicillarius</i>	♀ ad.	173	275	88	70	13	8.7	18							30	22	20	5.7	19	9.5				"	"
6229	<i>Melospiza lincolni</i>	♂ ad.	154	204	67	65	10.3	12.5								28	20	19.5	5	14.5	7				"	"
6230	"	♀ ad.	138	195	60	54	11	12								27	20	19	5	14	7				"	"
6231	<i>Geothlypis trichas occident.</i>	♂ ad.	139	186	62	60	14	9	15							20	18	5	13.5	6.5				"	"	
6232	<i>Spizella socialis ariz.</i>	♀ ad.	143	220	73	65	10.3	11								23.5	16.5	16	4	12	5				"	"
6233	<i>Zonotrichia intermedia</i>	♂ ad.	180	253	80	80	12	13								23.5	21.5	6.2	16	8				"	"	
6234	"	♂ ad.	175	254	80	78	10.5	12								31	22.5	21.5	6.2	17	8.5				"	"
6235	<i>Larus delawarensis attenuatus</i>	♀ ad.	Measurements on other table. Weight 1 lb. 6 oz.; ovaries. Irides straw color margin of eyelids vermilion. Bill yellow, banded with black between nostrils and tip, the latter being yellow like the base. Legs & feet chrome-yellow; claws, plumbeous-black at base, horn-color at tip. Head, neck, entire under surface, tail, upper tail-coverts and rump pure white. Back & wings above (mantle) pearl gray, the latter having the extremities of secondary quills white, and more or less black upon the terminal portion of four outer primaries. The outermost greatest wing-covert has a black spot 20 mm. in length in its outer web, extending to the edge of the feather, but not touching its shaft. The inner four of the black-tipped outer (5) primaries, have each a small white spot at the tip. The 2nd primary has the smallest white terminal spot and the size increases to the 5th which has a spot 12 mm. in length. The 1st (outer) primary has an oval spot 26 mm. in length which occupies the whole width of the feather except a very narrow black stripe alongside of the (black) shaft and along the outer edge of the feather. The faint black line edging the outer border of the 1st primary is absent in the right wing; otherwise the two wings are alike. The shafts of the quills are colored in correspondence with the webs; below they are all white except dusky tips to the outermost primaries. Ovaries considerably developed.																							
6236	<i>Ardea herodias</i>	♂ ad.	Measurements on the other table. Testicle fully developed, measuring 23 x 42 mm.																							
6237	<i>Melospiza lincolni</i>	♀ ad.	148	197	64	62	11.3	12.5								28	20	19	4.7	15	7.5					
6238	"	♀ ad.	148	194	61	59	11.2	12.3								27	20.5	19	5.2	16	8					

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Name.	Sex & age.	Length.	Alar expanse.	Wing.	Tail.	Culmen.	Nostril.	Chord of culmen & cere together.	Cere.	Gape.	Tip of bill to center of pupil.	Tip of bill to cere.	Base of bill to cere.	Tibia.	Tarsus.	Middle toe with its claw.	Middle claw.	Hallux with its claw.	Claw of hallux.	Inner claw.	Outer claw.	Diameter of eye.	Weight, oz.	Date.	
6239	<i>Pipilo aberti</i> .	♀ ad	234	287	94	119	16								40	28.5	26.5	9	25	10.5					A mated pair, with nest & 4 egg.	
6240	" "	♂ ad	238	303	97	119	16.5								41	29	27.5	9	20.3	10.6						
6241	<i>Tyrannus verticalis</i>	♂ ad	224	406	134	98	20.5	13.5			25				28	19	20.5	6.8	14	6.3					A mated pair.	
6242	" "	♀ ad	223	387	127	96	20	13			35				29	19	20	6.8	15	6.7						
6243	" "	♂ ad	225	410	135	99	21	14			26				31	19.5	21	7	15	7						
6244	<i>Empidonax obscurus</i>	♂ ad	153	237	75	67	13	9.5			18				24	19	15	6	12.7	7						
6245	<i>Empidonax pusillus</i>	♂ ad	146	231	75	63	12	7			15.5				21	16	13.5	5.1	11	6.2						
6246	<i>Myiarchus</i>	♂ ad	226	334	106	104	21	15			27				31	32	18	5.9	15	7.6						
6247	<i>Sturnus psaltria</i>	♂ ad	115	208	68	47	9.5	10			20.5					13	14.5	5	11	5.2						
6248	<i>Dendroica auduboni</i>	♂ ad	151	236	78	63	12	7.7			14				27	19	16.5	5.5	12.5	6						
6249	<i>Mimus polyglottus</i>	♂ ad	265	360	119	119	19	13.3			26				45	32	28.5	21	10						April 23, 1888	
6250	" "	♂ ad	262	360	117	126	18.5	13			26				41	33	27	7.5	19	8.5						
6251	<i>Icteria virens longicauda</i>	♂ ad	190	252	60	83	15	11.2			20				31	26	22	6.3	15	6						
6252	<i>Melospiza lincolni</i>	♂ ad	153	213	67	66	11.2	mis, hazel.			12.5	Large + feet fleshy brown			28	31	20	5	16	7.5					Bill brownish-black above, below yellow at base, dusky tip.	
6253	<i>Icterus cucullatus ruber</i>	♂ ad	204	268	88	93	20	14			22	27	41	22	30	23	21.5	6	17	7						
6254	<i>Chondestes grammacus stujata</i>	♂ ad	181	296	96	78	13	9.2			14	19	32	23	31	20.5	21	5.5	15.5	6.8						
6255	" "	♂ ad	187	303	97	82	13	9.2			14				32	21	20.3	5.1	16	7						
6256	" "	♂ ad	177	281	90	78	12	9			13				30	19.5	19	5.2	15	7						
6257	<i>Zenaidura macroura</i>	♂ ad	310	463	154	147	14	9			22	30	44	31	39	20	25	6	17.5	5.8					6.3 4 1/4 April 25, 1888	
6258	" "	♂ ad	317	460	157	160	15.5	9			21	28	40	30	40	20.5	24	5.8	17	6	6.8				do	
6259	" "	♂ ad	317	475	164	152	14	8.7			21.5	31	45	32	40	22	27	6.2	19.5	6.4	7.7				do	
6260	" "	♂ ad	308	457	158	156	13.7	10			22	29	42	31	38.5	19.5	25	6	18	6	7.4				do	
6261	" "	♂ ad	312	470	157	153	14	9			22	30	45	30	39	22	26	6	19	6	7.0				do	
6262	" "	♂ ad	308	445	150	146	14	10			22	30	44	32	38	20	23	5.3	16	5.2	6.9				do	
6263	" "	♀ ad	280	433	148	130	13.2	9.5			22	29	42	30	36	19	25	5.8	17.5	6	6.0				do	
6264	" "	♂ ad	321	460	155	155	13	9			22	29	43	31.5	40	21	24	5.1	18	5.3	6.0				do	
6265	<i>Actitis macularia</i>	♂ ad	Measurements on other table.												Bill yellow at base mandible & sides max. do											do
6266	<i>Actitis trichas occident.</i>	♂ ad	144	192	61	60	12	8.5			14.5	18.5	30	19	28	21	18	5	13.5	6.2					do	
6267	<i>Dendroica aestiva sonoran.</i>	♀ ad	128	190	61	50	10	7.5			13				25	18	14	4	11	4.2					do	
6268	<i>Sturnus psaltria</i>	♂ ad	113	197	66	46	10				10.5				19	12	14	5	10	5					do	
6269	<i>Empidonax</i>	♀ ad	No measurements.																						do	
6270	<i>Empidonax</i>	♂ ad	146	234	74	63	11.5	7.5			16				22	16.5	15	6	11	5.5					do	

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Name.	Sex and age.	Weight.	Culmen + cere.	Cere.	Culmen.	Gape.	Nostril.	Tip of bill to center of pupil.	Tip of bill to base of culmen.	Base of bill to cere.	Diameter of eye.	Length.	Alar expanse.	Wing.	Tail.	Tibia.	Tarsus.	Middle toe + claw.	Middle claw.	Hallux with its claw.	Plan of hallux.	Inner claw.	Outer claw.	Page in Journal.
5662.	<i>Carpodacus cassinii</i>	♂ ad.				14	16	11	20.5	35	24		176	297	100	71	30	20	21	6	16	6.5			
5663	<i>Carpodacus cassinii</i>	♀ ad.																							
5664	<i>Carpodacus cassinii</i>	♀ ad.																							
5665	<i>Falco sparverius</i>	♀ ad.	$\frac{4}{16}$	13.5	3.7	11	17.5	—	13	41	$\frac{1}{35}$		279	607	203	140	52	38	33	11	20	10	10	9	Claws sleek with horn + feathers so. bird
5669	<i>Otocoris a.</i>					12	15.5	8.2	19	34	24		185	330	108	79	28	19.5	18.5	7	20	12			
5670	<i>Haliaeetus leucocephalus</i>	♂ ad. ^{immature}	$\frac{7}{16}$	12	71	20	58	82	51	90	128	83	14	910	280	665	345	160	100	107	36.5	83	46	45	33
Graduation of tail 43. height of bill at base culmen, 40. head of bill to end of middle claw, 35.5. mid. toe, 75. Tarsus, girth 70. Tibia girth 175.																									
5973 to 5978	are <i>Otocoris</i> (3 ♂ + 3 ♀)	no measurements.																							
5979	<i>Colaptes cafer</i>	♀ ad. $\frac{1}{16}$				38.5	43		52	74	36		327	522	162	123	44	29	31	12.5	17	7.5			
5980	<i>Junco</i>	♂ ad.				11.5	12						161	254	82	75	38.5	20	19	5	14	7			
5981	<i>Junco</i>	♂ ad.				11	12.2						166	256	84	78	28.5	21	20	5	14.5	6.8			
5982	<i>Junco</i>	♂ ad.				11	12						163	253	83	75	30	22	20	5	15	7			
5983	<i>Junco</i>	♂ ad.				12	13.2						158	243	78	67	29.5	20.5	18.5	5	15.5	7.5			
5985	<i>Picus villosus harrisi</i>	♂ ad. $\frac{2}{16}$				32.5	35		42	60	28		243	413	133	93		23	22	10	12	6			
5986	<i>Spinus tristis</i>	♂ ad.				11	12						136	236	78	57	22	14	15	5.5	12	6			
5987	<i>Spinus tristis</i>	♂ ad.				11.8	12		16	27	17.5		134	238	78	56	22	13.5	15.5	5	12	6			
5988	<i>Geothlypis intermedia</i>	♂ juv.																							
5989	<i>Turdus gnolashkai</i>	♀ ad.				15	21	9					179	275	91	74	37	31	21	5	15	6			
5990	<i>Arctus pennsylvanicus</i>	♂ ad.				12.7	17	9					170	270	90	74	26	20.5	17	4.6	15	8			
5991	<i>Sayornis sayi</i>	♀ ad.				17	23	12					195	320	104	87	28	20	17	6	12	6.3			
5992	<i>Helospiza fasciata montana</i>	♀ ad.				11.5	12						161	216	67	71	32	21	20.5	5.7	16	8			
5993	<i>Dendroica auduboni</i>	♀ ad.				11	14	7					141	224	74	60	35	18	16	3.8	11	5			
5994	<i>Turdus aonalaschkae</i>	♀ ad.				13.5	20	9					181	281	92	75	38.5	30	22	5	15	6			
5995	<i>Spizella socialis arizonae</i>	♀				10	10						143	228	76	68	22	17	16	4.5	13	6			
5996	<i>Junco hyemalis oregonus</i>	♂ ad. (♀?)				11	12						153	236	76	69	29	20	19	5	14	6.5			
5997	<i>Thryothorus bewicki bairdi</i>	♀ ad.				14	17	10					145	186	60	65	18	14	4.5	12	5.3				
5998*	<i>Spinus pinus</i>	(♂ ad.)				11	11.5						138	220	72	50	23	14	16.5	5	13.5	6			
5999*	<i>Spinus pinus</i>	♀ ad.				11	12						126	216	70	47	22.5	14.7	15	4.4	13	5.8			
6000*	<i>Spinus pinus</i>	♀ ad.				11	12						125	219	72	48	24	15.5	16	5	13	5.5			
6001*	<i>Spinus pinus</i>	♀ ad.				10.6	11.5						124	217	71	47	21	15	16	5	13.2	6			
6002*	<i>Spinus pinus</i>	♀ ad.				11	12						128	223	74	51	24	14.8	15	5	13.5	6			
6003*	<i>Spinus pinus</i>	♀ ad.				10.8	12						126	226	75	48	23	14	16	5	12.8	5.8			

RETURN—Continued.

ADDITIONAL ARTICLES.

	Sex & Age	Weight lbs. oz.	Cul. + cere	Cere	Culmen	Gape	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Distance of eye	% of bill to center of pupil	% of bill to occiput	Base of culmen to occiput	Tibia	Tarsus	Middle toe with its claw	Middle claw	Hallux with its claw	Anal claw	Page in Journal			
5914	<i>Sayornis nigricans</i> ♂ ad.							189	296	94	85	16	11	20.5				23	18	16	6	15	7.2	309		
5915	" " ♂ ad.							185	289	94	84	17	11	21.5				25	18	15	5.9	13	7	309		
5916	" " ♂ ad.							186	293	94	84	18	11.7	22				27.5	18	16	6.3	14	7.8	309		
5917	<i>Astragalinus psaltria</i> ♂ ad.							115	209	67	46	10		10				20	13	14	5	11	5.1	309		
5918	<i>Spinus pinus</i> ♀ ad.							127	224	73	52	11.2	9.5	12.8				22.5	14.5	15.5	5	13	6	309		
5919	<i>Amphispiza bilineata</i> ♂ ad.							152	225	74	71	11.7		12				20	16	4.6	13	6	309			
5920	<i>Capodacus frontalis</i> ♀ ad.							152	244	79	64	10.5	8	11.7				25.5	17	17	5.1	13	6	310		
5921	" " ♀ ad.							168	249	80	68	11	8.5	12.3				26	18.5	18.3	5.5	13	6	310		
5922	<i>Junco</i> ♂ ad.							163	250	81	75	10.5	7.5	12				28	20.5	19	5	15	7	310		
5923	<i>Junco</i> ♀ ad.							166	252	82	76	12	8	12				29	21	19	5.2	15	7	310		
5924	<i>Sialia mexicana</i> ♂ ad.							182	342	117	76	13	8.2	18				31	21	20.5	5.8	14.5	6.2	310		
5925	" " ♀ ad.							173	308	102	67	13	9	21				31	22	20	5.5	13	6	310		
5926	<i>Colaptes cafer</i> ♀ ad.							229	172	133	37		42					44	30	33	11.3	17	7.5	310		
5937	<i>Buteo bor. calurus</i> (tail red.) ♂ ad.	2	0	37	16	25		542	1290	400	230	28	18.5	43	13.5	51	82	59	118	87	66	35	55	30		
5941	<i>Colaptes cafer</i> ♂ ad.	0	5 1/4					353	552	177	138	44	36	47			58	83	40	43	32	33	11.2	16	7	
5942	<i>Accipiter velox</i> ♂ juv.	0	4	16	7.5	10		307	575	180	152	12	7.5	17	7.3	24	43	33	59	53	36	9	23	11		
5943	<i>Ceryle alcyon</i> ♀ ad.	0	4 1/2					342	580	168	98	58	46	75			75	100	50	38	12	23	8	12	6	
5944	<i>Pipilo maculatus megalonyx</i> ♀ ad.							212	269	85	102	13.5		16				37	26.5	28	9	22	12			
5945	<i>Pipilo maculatus megalonyx</i> ♂ ad.																									
5946	<i>Anthus pensilvanicus</i> ♀ ad.							173	271	90	73	13	9	17				29	21	18.3	5	17	9			
5947	<i>Oreniophila alpestris</i> ♂ ad.	0	1 1/2					187	342	113	81	11	8.5	15				29	20.6	19	6	20	12			
5948	" " ♂ ad.	0	1 1/2					185	336	111	77	12.8	9	16				30	28	18.5	6.5	20	12			
5949	" " ♀ ad.	0	1					178	316	103	72	11.8	7.8	14				29	20.5	18.3	7	18.5	10.5			
5950	" " ♀ ad.	0	1					173	320	104	71	11	8	14				29	21	17.6	6	20	12			
5951	" " ♀ ad.	0	1					170	306	100	67	11	8	14				29	22	17	6	17	9			
5952	" " ♀ ad.	0	1					174	314	103	71	12	8	14				29	22	16	5	16	8.5			
5956	<i>Pipilo maculatus megalonyx</i> ♂ ad.							216	291	94	111	12.5	9	16			20	35	26	35	27	26	8.5	20	10.7	trip, red.
5957	<i>Junco dorsalis</i> ♂ ad.							166	269	86	80	12	8.5	13			18	31	22	30	22.5	20	5	15	6.8	trip, hazel.
5958	<i>Myiadestes townsendi</i> ♀ ad.							220	347	116	102	12	7	21				35	22	22.5	7	16	8			
5959	<i>Luscin. arnoldi</i> ♂ ad.							186	290	95	77	13	9	20.5				37	30	22	5	16.5	7	*		
5960	<i>Junco</i> ♀ ad.							157	229	74	66	11		12				28	21	19	5	15	6.8			
5961	<i>Junco</i> ♀ ad.							153	234	77	78	11		11				29	20.5	19.5	5	14	6.7			
																							* w/ frontal feathers.			

RETURN—Continued.

ADDITIONAL ARTICLES

[illegible]

Ducko Killed Peck's Lake. December 7th & 8th 1887.

RETURN—Continued.

ADDITIONAL ARTICLES.

Name	Sex & age	Length	Alar expanse	Wing	Tail	Bill from front of feathers	From extreme base	From nostril	Gape	Height at extreme base	Width at base	Greatest width	St of bill to centre of pupil	St of acropit	Frontal feathers to acropit	Head of tibia to end of claws	Stibia	Base posterior	Tarsus	Middle toe & claw	Middle claw	Third toe and claw	Third claw	Diameter of eye	Weight	Remarks	
Canvas-back ⁵⁷⁵⁵ ♂ ad.	♂ ad.	574	910	242	70	65	78	39	71	32	22	22	94	133	61	226	99	16	47	81	905	27	5.07	9	2	14	Irises orange-brown
Canvas-back ⁵⁷⁵⁶ ♂ ad.	♂ ad.	543	875	238	67	67	76	38	70	31	22	22	94	132	60	218	99	15	47	79	9.05	25	5.02	8.04	2	12	Irises, orange-brown
Canvas-back ⁵⁷⁵⁷ ♂ ad.	♂ ad.	544	897	247	75	65	76	37	68	30	22	22	92	127	57	217	100	15	47	79	9.	24	5.07	8.02	2	10 1/2	Irises, orange-brown
Rail head ⁵⁷⁵⁸ ♂ ad.	♂ ad.	543	897	247	81	49	61	35	61	27	21	20.5	78	105	59	210	94	14	45	74	9.02	25	6.	8.06	2	6	Irises Golden
Rail head ⁵⁷⁵⁹ ♂ ad.	♂ ad.	578	841	230	70	46	57	33	55	25	22	23	75	102	55	202	90	12.05	42	71	8.05	23	5.	8.04	2	-	Irises yellow
Rail head ⁵⁷⁶⁰ ♂ ad.	♂ ad.	525	843	232	73	47	58	33	57	23.05	21	21	75	104	57	200	90	12	44	71	8.08	23	4.05	8.	2	3	Irises orange-brown
Mallard ⁵⁷⁶¹ ♂ ad.	♂ ad.	640	1007	300	115	55	66	42	67	25	23	23	90	123	44	264	96	13	49	67	10.	20	5.08	8	3	-	Irises Hazel
Mallard ⁵⁷⁶² ♂ ad.	♂ ad.	630	1000	290	110	55	66	44	69	24	23	24	91	122	43	269	94	13.05	49	64	11	22.05	6.03	9	2	13	" Hazel
Mallard ⁵⁷⁶³ ♂ ad.	♂ ad.	615	962	290	112	58	67.05	43	70	26.05	24	25	91	125	43	263	95	15	46	63	9.07	22	6.01	9	2	13	" "
Spoonbill ⁵⁷⁶⁴ ♂ ad.	♂ ad.	578	820	257	104	64	76	50	78	22	16.05	29	95	120	53	162	74	13	38	54	10.05	16	5.	8.	1	8	" Yellow
Spoonbill ⁵⁷⁶⁵ ♂ ad.	♂ ad.	571	830	246	100	67	77	52	81	21	18	34	98	123	54	163	77	14	39	52	8.	16	4	8	1	6	Irises yellow
Spoonbill ⁵⁷⁶⁶ ♀ ad.	♀ ad.	450	733	220	80	57	64	44	66	19	14	28	82	105	48	152	71	13	36	48	7.05	15	4	7.05	1	2	Light yellowish-brown
Widgeon ⁵⁷⁶⁷ ♂ ad.	♂ ad.	523	875	270	114	35	40	24	43	18.05	18.05	18.05	65	88	53	272	82	15	41	52	7.05	18	5	9.	1	7	Irises Brown
Widgeon ⁵⁷⁶⁸ ♂ ad.	♂ ad.	573	860	259	106	36	42	28	43	18.	18.	18.	46	92	54	171	83	14	42	53	9.	17	4.05	8	1	11	" Brown
Widgeon ⁵⁷⁶⁹ ♀ ad.	♀ ad.	478	830	258	104	37	42	28	44	17.	16.05	16.05	45	87	57	160	78	13	39	51	7.05	16	4.	9	1	6	" "
Buffle head ⁵⁷⁷⁰ ♀ ad.	♀ ad.	338	555	160	78	24	29	17	35	15	16	16	47	69	46	138	58	6	30	52	6.	17	3.07	6.08	-	12 1/2	Irises Hazel
Buffle head ⁵⁷⁷¹ ♀ ad.	♀ ad.	339	553	160	75	24	30	17	38	16	15	15	46	67	44	137	60	5	30	51	6.05	16	4.	-	-	12	" Hazel
Buffle head ⁵⁷⁷² ♀ ad.	♀ ad.	340	555	160	74	26	33	18	38.00	15.05	16	14	49	69	44	137	60	5	31	50	6.	14	3.05	6.05	-	12	" Hazel
Buffle head ⁵⁷⁷³ ♀ ad.	♀ ad.	342	540	160	77	25	32.15	14.05	36.	14.05	15.05	15.05	44	67	43	149	59	4	31	53	6.	17	4.	-	-	12	" Hazel
Buffle head ⁵⁷⁷⁴ ♀ ad.	♀ ad.	340	555	160	77	24	31	16.05	34	15.	14.00	14.00	44	67	45	138	60	5	30	53	7	17	3.08	7.	-	12	" Hazel
Buffle head ⁵⁷⁷⁵ ♀ ad.	♀ ad.	337	540	162	71	25	31	17.	35	16.	15.	15.	44	70	44	143	60	5.05	31	53	7	17.05	4	6.03	-	11 1/2	" Hazel
Buffle head ⁵⁷⁷⁶ ♀ ad.	♀ ad.	343	543	160	76	24	30.05	17.	38	16	15.	15.	47	68	44	139	60	5.	31.05	50	6	16	4	7.	-	11 1/2	" Hazel
Buffle head ⁵⁷⁷⁷ ♀ ad.	♀ ad.	337	543	161	72	25.05	32.05	17.	34	16	15.05	15.05	48	68	43	143	60	5.05	33	52	7	17.	4	7	-	12 1/2	" Hazel
Buffle head ⁵⁷⁷⁸ ♀ ad.	♀ ad.	334	554	162	73	24	33	17.	38	16	15.	15.	47	68	43	137	58	6.	30	50	6.07	17	3.09	7.02	-	11 1/2	" Hazel
Widgeon ⁵⁷⁷⁹ ♀ ad.	♀ ad.	508	876	270	95	40	48	35	52	20	17	17	72	97	54	171	81	16	42	55	7	17	5	8	1	10	" Light Brown
Widgeon ⁵⁷⁸⁰ ♀ ad.	♀ ad.	509	813	237	92	45	52	34	55	20	16	17.05	72	97	53	147	78	14	42	52	6.05	16	4	8	1	9 1/2	" "
Widgeon ⁵⁷⁸¹ ♀ ad.	♀ ad.	488	847	260	92	39	47	31	48	18	17	17	67	90	54	174	85	16	42	54	7.05	17.05	5	7.05	1	7 1/2	" Dark Hazel
Widgeon ⁵⁷⁸² ♀ ad.	♀ ad.	480	845	252	85	36	45	32	48	17	15.05	16.	67	90	53	163	78	13	38	49	7.	16	4.01	8.	1	10	" Dark Hazel
Pintail ⁵⁷⁸³ ♂ ad.	♂ ad.	643	950	283	135	54	62	43	65	23	18	19	87	114	57	185	87	14	45	59	10.5	19	5.7	8.5	1	13	" "
Pintail ⁵⁷⁸⁴ ♀ ad.	♀ ad.	540	860	246	108	49	56	38	56	22	17.5	18	76	103	52	180	84	14	44	57	8.5	18	5.5	8	1	8	" Yellow
Lesser Scaup ⁵⁷⁸⁵ ♂ ad.	♂ ad.	425	722	199	64	40	48	28	49	21	20	24	67	90	49	169	77	10	37	62	7.6	22	4.2	7	1	11 1/2	Irises yellow

RETURN—Continued.

ADDITIONAL ARTICLES.

Name	Sex and age	Length	Alar expanse	Wing	Tail	Culmen from frontal feathers.	From extreme base.	From nostril	Gape	Height of bill at extreme base	Width at base	Greatest width	Tip of bill to center of pupil	Tip of bill to occiput	Base of culmen at frontal feathers to occiput	Head of tibia to end of middle claw	Tibia	Bare portion	Tarsus	Middle toe and its claw	Claw	Third toe & cl.	Third claw	Diameter of eye	Weight lbs. oz.	Remarks			
⁵⁷⁸⁸ Lesser Scaup Duck	♀ ad	435	722	195	70	41	48	38	50	21	19	22	64	90	48	169	78	11	36	60	8	21	4	7	21 4 1/2	Iris yell-brown			
⁵⁷⁸⁹ Greater Scaup Duck	♂ juv.	485	808	218	72	44	53	30	55	25	22	26	73	102	58	190	90	12	41	67	8	23	4.5	1	12	Irides yellowish			
⁵⁷⁹⁰ Ring-necked Duck	♂ ad	448	745	210	66	46	52	30	53	23	20	22	71	97	51	180	80	10	38	66	8	22	4.8	8	1	13 1/2	Irides golden		
⁵⁷⁹¹ Ring-necked Duck	♂ ad	441	715	204	68	46	51	30	51	23	20	21	70	95	49	167	72	11	36	61	8	21	5	8.5	1	6	Irides yellow		
⁵⁷⁹² Ring-necked Duck	♂ ad	452	745	209	70	47	55	32	54	24	21	23	72	100	51	182	83	10	38	65	8.5	22	5	8	1	11 1/2	Irides orange		
⁵⁷⁹³ Ring-necked Duck	♂ ad	450	728	202	72	47	55	30	52	23	20	22	70	97	51	178	79	10.5	37	64	8	20.5	4.3	8.5	1	11	Irides yellow		
⁵⁷⁹⁴ Merganser americanus	♀ ad	588	865	346	97	46	56	31	64	16	13	13	72	105	58	194	79	11	49	70	8.3	22.5	5	8.2	2	5 1/2	Irides yellowish		
⁵⁷⁹⁵ Hooded Merganser	♀ ad	448	632	182	98	39	44	27	49	14	12	12	58	89	48	149	66	6	34	53	7.2	18	4.8	7.5	1	3	Irides brown		
⁵⁷⁹⁶ Hooded Merganser	♀ ad	448	632	182	98	39	44	27	49	14	12	12	58	89	48	149	66	6	34	53	7.2	18	4.8	7.5	1	3	Irides brown		
⁵⁷⁹⁷ Hooded Merganser	♀ ad	445	658	196	102	38	44	27	49	13.5	12	12	59	86	47	148	65	6	31	52	7	18.5	5	7.8	1	2 1/2	Irides brown		
⁵⁷⁹⁸ Hooded Merganser	♀ ad	425	625	179	91	35	42	25	47	12.5	11.5	11.5	56	82	49	149	67	6	32	54	6.7	20	5	8	1	1/2	Irides brown		
⁵⁷⁹⁹ Hooded Merganser	♀ ad	443	637	186	96	37	42	26	49	13	12	12	58	85	48	151	68	6	33	55	6.7	20	5	7.2	1	2	Irides brown		
⁵⁸⁰⁰ Hooded Merganser	♀ ad	441	630	184	99	38	45	26	50	13	12	12	58	87	50	152	69	7	34	54	7	19	5	7.7	1	3	Irides brown		
⁵⁸⁰¹ Ring-billed Duck	♂ ad	447	732	204	70	45	51	29	52	25	21	22	68	94	52	175	77	11	37	64	8	20	4	8	1	10 1/2	Irides orange yellow		
⁵⁸⁰² Buffle-head	♀ ad	338	538	152	73	24	31	17	37	15.5	14.5	14.5	45	67	44	137	60	6	30	51	6.2	16.5	3.8		0	10			
⁵⁸⁰³ Podiceps podiceps	♂ ad	363	605	140	48	22	45	14	35	13	8		38	66	44	181	87	6	40	56	7	15.5	2.5	6.6		15			
⁵⁸⁰⁴ Podiceps auritus	♀ ad	325	555	131	33	24	41	15	30	7	7.5		37	58	33	172	82	6	41	50	7	16	2.6			10	Irides yellow		
⁵⁸⁰⁵ Podiceps auritus	♀ ad	314	534	124	35	23.5	39	16	29	7.2	8		38	57	33	170	76	8	42	51	7.5	15.5	2.8			11 1/2	Irides orange		
⁵⁸⁰⁶ Podiceps auritus	♂ ad	329	568	134	35	25	41	17	31	8	8.5		38	59	35	178	83	7	44	51	6.6	15.5	2.2			11			
⁵⁸⁰⁷ Podiceps auritus	♀ ad	318	548	132	32	22	40	15	29	7	7		36	56	35	170	78	8	42	51	7	17	2.6			10			
⁵⁸⁰⁸ Mud Hen	♀ ad	390	682	193	64	44	54	14	34				46	68		233	100	22	58	81	11	32	8			1	1 1/2	Irides reddish brown	
⁵⁸⁰⁹ Mud Hen	♀ ad	400	690	196	63	46	54	16	36				47	68		235	102	22	58	82	11	33	8			1	4 1/2	Irides bright	
⁵⁸¹⁰ Mud Hen	♀ ad	365	628	182	60	40	49	14	32				42	62		212	88	19	52	75	11	32	8				15 1/2	Irides brownish red.	
⁵⁸¹¹ Actitis macularia	♀ ad	193	335	108	56	24			26				35	48	24	82	37	11	24	22	4	7.6	2.8					10	Under parts spotted.
⁵⁸¹² Actitis macularia	♂ ad	193	316	102	53	22			25				35	47	25	80	36	10.5	24	21.5	4	7.7	2.8					10	Irides hazel.
⁵⁸¹³ Branta occidentalis	♂ ad	755	1790	507	182	54	64	29	57	30	30		90	128	75	375	180	24	98	103	13	32	8			10	0		
⁵⁸¹⁴ Branta occidentalis	♀ ad	712	1730	485	177	53	63	28	59	29	29		86	123	72	350	169	23	90	92	13	30	8			9			
⁵⁸¹⁵ Gallinago delicata	♀ ad	290	463	143	67	65			64									129	59	15	33	25.5	6.5	13.5	3.7				
⁵⁸¹⁶ Spatula clypeata	♂ ad	578	1324	103	70	77	52	83	23	18	33	99	127	58	173	78	16	40	57	9.7	17	5.1	8.5						Irides yellow. Feet reddish. Claws brownish. flesh color.

Branta occidentalis

RETURN—Continued.

ADDITIONAL ARTICLES.

Bird collected in May, 1888.

No.	Name.	Sex and Age.	Length.	Alar expanse.	Wing.	Tail.	Culmen.	Nostril.	Gape.	Chord of culmen + cere.	Cere.	Tip of bill to center of pupil.	Tip of bill to occiput.	Base of bill to rear of occiput.	Tibia.	Tarsus.	Middle toe with its claw.	Middle claw.	Hallux with its claw.	Claw of hallux.	Inner claw.	Outer claw.	Diameter of eye.	Weight.	Date.
6361	<i>Icterus parisorum</i> .	♂ ad.	230	338	110	97	24.5	18	27			32	48	24	34	24	24	6	19	8.5					nest in mullet in oak-bush - 5 feet from ground. Parents of set four eggs taken with nest.
6362	"	♀ ad.	215	320	104	88	24	16	26	much blk. on throat		30	45	24	34	25	26	7.5	30.5	9					
6363	<i>Dendroica inexpectans</i>	♀ ad.	131	195	63	54	10	7.2	13.5							24	18	13	4	10	4.5				
6364	<i>Empidonax hirtus</i> ?	♂ ad.	136	215	65	58	10	6.5	14	Back greenish						15	12	4.5	10	5.1					Belly not yellow.
6365	<i>Habia melanoceph.</i>	♂ ad.	210	329	103	84	18.5	13	22							36	24	24.5	7	17	7				
6366	<i>Vireo vicinior</i>	♂ ad.	143	212	67	64	11	6.5	14			17.5	30	21	25	19	15	4.8	11.5	5					
6367	<i>Vireo gilvus swainsoni</i>	♂ ad.	137	216	68	51	10	7.3	16							21	18	13	4	10.5	5				
6368	<i>Myiophobus virens</i> Baird	♂ ad.	141	232	56	58	15	11	19							25	19	16	4.6	13	5.5				all of the above taken May 14, 1888. Stomach full of small lizards.
6369	<i>Buteo swainsoni</i>	♀ ad.	255	320	410	234	23	22	41	33.5	13	47	77	56	98	71	58	20	47	25	24	16	11.5	32	
6370	<i>Otocorys alpestris</i> var.	♂ ad.	185	344	112	80	14	11	19			22.5	36	23.5	29	21	18	6.5	17	8.5					
6371	<i>Helminthophila luciae</i>	♀ ad.	112	174	56	44	9.3	7	11.5							22	16	12	3.7	10	4				May 17, 1888
6372	<i>Geothlypis caerulea</i>	♂ ad.	183	301	97	78	15.5	11.8	18			22	36	23	20.5	23.5	6.6	17	7	5.1	4.6				" " "
6373	<i>Progne subis</i> .	♂ ad.	209	424	156	80	10.9	8.3	25.5	Tip, fork, 24		26	40	30	33	17	21	6	16	6.8					" " "
6374	<i>Vireo gilvus swainsoni</i> .	♀ ad.	137	212	68	53	11	8	17	Tip, hazel.		19	30.5	21	23.5	17	13	4	11	5					" " "
6375	<i>Icteria vir. longic.</i>	♂ ad.	190	257	83	84	14	11.3	20.4			24	39	25	35	28	22	6	16	7	Iris, hazel.				" " "
6376	<i>Zenaidura macroura</i> juv.																								" " "
6377	<i>Turdus natalis</i> .	♂ ad.	189	308	103	77	13	8.5	22			24	38	25.5	39	27	23	6	16.5	7					" " "

RETURN—Continued.

ADDITIONAL ARTICLES.

Name	Sex & age.	Date.	Length	Star expanse	Wing	Tail	Culmen	Nostril	Gape	Tibia	Tarsus	Mid. toe & cl.	Middle cl.	Inner toe & cl.	Inner claw	No.	Remarks	
⁵⁷⁴³ <i>Cyanocitta macrolopha</i>	♀ ad.	Dec.	6	315	461	151	140	28		34	55	43	30	9	25	12.5	1	
⁵⁷⁴⁴ <i>Cyanocitta macrolopha</i>	♀ ad.	Dec.	6	308	445	143	134	28		33	55	43	30	10	23	11.5	2	
⁵⁷⁴⁵ <i>Cyanocitta macrolopha</i>	♂ ad.	Dec.	6	320	480	158	147	29		34	57	42	33	10	26	12	3	
⁵⁷⁴⁶ <i>Alphelcomas woodhousei</i>	♂ ad.	Dec.	5	327	433	142	156	28		33	54	40	32	9	24	10.5	4	
⁵⁷⁴⁷ <i>Alphelcomas woodhousei</i>	♂ ad.	Dec.	5	309	396	130	143	27		32	50	38	30	9.3	22	10	5	
⁵⁷⁴⁸ <i>Alphelcomas woodhousei</i>	♂ ad.	Dec.	5	298	393	127	140	27		30	51	39	29	9	22	10.2	6	
⁵⁷⁴⁹ <i>Melanerpes bairdi</i>	♂ ad.	Dec.	5	240	472	148	90	26		31	34	22	25	8.3	13.5	6	7	
⁵⁷⁴⁶ "	♂ ad.	Dec.	6	245	465	145	90	27		31.5	35	22	25	8	13	6.6	8	
⁵⁷⁴⁷ "	♀ ad.	Dec.	6	234	460	148	90	25		29	34	21.5	24	8.2	13	6	9	
⁵⁷⁴⁸ "	♂ ad.	Dec.	6	236	450	143	87	27		31	35	22	25	8.4	13	6	10	
⁵⁷⁴⁹ <i>Myiophobus macconnii</i>	♀ ad.	Nov.	29	153	273	90	56	11		12	28	19	18	5.3	18	10	11	From plumage I think they are all females, but they were so stale when skinned that I could not positively determine sex.
⁵⁷⁵⁰ "	♀ ad.	Nov.	29	155	276	92	58	12		13	28	19	18	5	19	11	12	
⁵⁷⁵¹ "	♀ ad.	Nov.	29	149	275	90	57	11.7		13	26	19	17	5	14.5	7	13	
⁵⁷⁵² "	♀ ad.	Nov.	29	155	271	88	55	11.3		13	27	18.5	17	4.4	15	7	14	
⁵⁷⁴⁹ <i>Melanerpes bairdi</i>	♀ ad.	Dec.	6	236	441	143	88	25		29	32	22	24	9	12	5.2	15	
⁵⁷⁵⁰ <i>Melanerpes bairdi</i>	♀ ad.	Dec.	6	235	440	143	87	23		28	34	23.5	24	9	12.5	5.5	16	
⁵⁷⁵¹ "	♀ ad.	Dec.	6	237	450	145	88	25		29	33	21	25	9.7	13	6	17	
⁵⁷⁵² "	♀ ad.	Dec.	6	234	448	145	83	24		27	36	23	26	10	14	7	18	
⁵⁷⁵³ "	♂ ad.	Dec.	6	250	458	150	90	28		32	35	21	24	9	13	6	19	
⁵⁷⁵⁴ "	♂ ad.	Dec.	6	247	451	146	88	28		32	34	22	25	9	12	5.5	20	Dark Crest
⁵⁸²⁹ <i>Callipepla gambeli</i>	♂ ad.	Dec.	14	280	370	120	105	11.5	8	15	52	34	34.5	10	13	5.8	21	Bill, iris, legs, feet and claws normally colored all over.
Crest white. Here & there a scattered feather of normal plumage throughout																		
⁵⁸⁶⁹ <i>Anthus pen.</i>	♀ ad.	Dec. 22	1887	164	269	87	68	12.5	9	16	28	20	18	5	16	8		
⁵⁸⁷⁰ <i>Anthus pen.</i>	♀ ad.	Dec. 22	1887	161	252	80	64	13.2	9.2	17	30	22	19	5.6	21	12.5		
⁵⁸⁸² <i>Anthus pen.</i>	♀ ad.	Dec. 22	1887	164	260	85	64	13	9.6	16.5	29	22	18.5	5	21	12.5		
⁵⁸⁷¹ <i>Otocorys</i>	♂ ad.	Dec. 22	1887	180	324	105	72	1.3	9	16	28	21.5	17	7	18.5	11.6		
⁵⁸⁷² <i>Otocorys</i>	♀ ad.	Dec. 22	1887	175	316	102	69	13	8.2	14.5	30	21.2	17	7	19	11		
⁵⁸⁷³ <i>Otocorys</i>	♀ ad.	Dec. 22	1887	177	318	103	70	11.7	8.4	15	28.5	22	17	6.4	17	10		
⁵⁸⁷⁴ <i>Otocorys</i>	♀ ad.	Dec. 22	1887	168	310	100	66	12	8.2	16	29	21	18	8	19	12.4		
⁵⁸⁷⁵ <i>Otocorys</i>	♀ ad.	Dec. 22	1887	170	310	101	68	11.6	8.6	15	29	21.2	16	5.7	17	10.6		
⁵⁸⁷⁶ <i>Otocorys</i>	♀ ad.	Dec. 22	1887	175	311	101	69	12	8.7	15	31.5	21.6	17.5	6.5	24	16.2		
⁵⁸⁷⁷ <i>Otocorys</i>	♀ ad.	Dec. 22	1887	170	209	100	68	12.2	8.5	15	30	20.5	18.6	7	23	16		

ADDITIONAL ARTICLES.

*Jail badgy morn.

Birds measured in 1888.

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Name	Sex and age.	Length	Alar expanse	Wing.	Tail.	Culmen from frontal feathers.	Culmen from extreme base.	Culmen from nostril.	Gape.	Height of bill at extreme base.	Width at base.	Greatest width.	% of bill to centre of pupil.	% of bill to occiput.	Base of culmen at frontal feathers to occiput.	Head of tibia to end of middle claw.	Tibia.	Bare portion.	Tarsus.	Middle toe with its claw.	Middle claw.	Hallux with its claw.	Claw of hallux.	Diameter of eye.	Weight	Remarks		
5927	Merganser americ.	♂ ad.	703	990	290	130	57	71	37	82	22	20	20	88	125	66	233	110	12	54	88	10	24	6.2	9	3	13		
5928	"	♂ ad.	680	965	280	125	56	69	38	74	22	17	17	85	124	65	229	106	12.5	50	76	9	25	6	9.3	3	9	Size plum. blk.	
5929	Lophodytes cucullatus	♂ ad.	447	653	197	112	39.5	45	26.5	50	15	14	14	60	88	48	152	68	7.5	32	54	6.7	19	4.5	8	1	5	Iris yellow.	
5930	"	♂ juv.	447	640	197	110	39	46	26.5	53	15.5	15	15	60	88	50	151	66	8	33	53	7	19	5	8	1	5	Bill yellowish at base. Iris reddish brown.	
5931	Anas boschas	♂ ad.	630	995	302	114	58	68	44	71	35	24	24	91	122	62	203	95	14	46	64	10	20	5.5	9.5	2	8		
5932	"	♂ ad.	627	1005	303	112	58	69	47	70	26	23	25	92	129	65	208	100	15	49	66	8.5	21	6.2	9.2	2	15	Iris dark hazel.	
5933	Anser occidentalis	♂ ad.	994	1825	506	195	60	72	33	68	32	28	28	95	134	74	365	172	29	97	99	15.5	32	9	9.5	9	0	Bill yellowish.	
5934	do	ad.	910	1775	505	180	49	58	29	56	28	27	27	82	123	74	334	160	20	90	89	12.5	31	8.5					
5935	do	ad.	920	1755	500	185	52	62	29	57	30	29	29	87	126	74	347	170	21	90	91	13.5	28	9					
5936	do	ad.	993	1825	520	190	54	67	32	59	33	29	29	92	133	78	365	175	26	99	97	14	33	9					
5937	do	ad.	940	1800	510	199	53	65	31	56	29	29	29	88	127	74	356	175	23	94	96	14	31	9.5					
5938	Merganser americ.	♂ ad.	570	900	262	122	52	63	37	72	19	16.5	16.5	78	115	60	212	95	11	49	70	8	24	6.5		2	10	75	occipital crest.
5939	Loph. cucullatus	♂ juv.	460	665	194	103	40	46	27	54	15	13	13	60	91	51	157	71	8	33	56	7	21	5		1	3 1/2		
5940	"	♂ juv.	466	652	190	98	40	47	27	53	14	12.5	12.5	63	92	53	158	69	8	33	55	6.7	21	5		1	2 1/4		
5941	Actitis mac.	♂ ad.	179	305	95	48	20.5									75	35	12	21	19	3.8	6	2.2					204	
5942	Branta occident.	♂ ad.	1000	1870	530	190	56	69	31	62	32	29	29	94	133	76	380	180	25	101	101	15	34	9.5		3			
5943	"	♀ ad.	875	1640	470	168	53	63	27	57	30	27	27	84	120	67	337	164	28	88	88	12	33	8.5					
5944	Loph. cucullatus	♂ juv.	450	660	193	103	43	47	27	52	14.5	12	12	61	92	51	160	68	8.5	34	58	8	19	5	8.5	1	4		
5945	M. americ.	♂ ad.	656	945	275	132	56	70	38	79	21	17.5	17.5	86	123	66	225	107	12	51	73	9	23	6	8.7	3	4		Iris hazel.
5946	Spatula	♂	520	837	258	106	66	75	51	77	23	17	33	95	122	54	168	75	13	41	56	8.7	17	5	8.1	1	1		Iris yellow.
5947	Spatula	♂	520	804	242	102	66	74	49	77	23	16	32	95	121	53	170	77	14	41	55	8.5	17	5	8.	1	1 1/2		Iris yellow.
5948	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5949	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5950	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5951	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5952	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5953	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5954	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5955	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5956	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5957	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5958	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5959	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5960	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5961	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5962	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5963	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5964	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5965	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5966	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5967	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5968	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5969	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5970	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5971	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5972	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5973	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5974	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5975	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5976	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5977	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5978	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5979	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		
5980	Cygnus	♀ juv.	420	2400	605	180	90	—	48	103	48	38	38	136	190	95	500	245	32	125	163	19	36	10	12.5	15	0		

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Name	Length of winged plumage.	Sex and age.	Length	Wing expanse	Wing.	Tail	Culmen from frontal feathers	Culmen from extreme base	Nostril	Gape	Height of bill at extreme base	Width at ex. = same base.	Greatest width	Tip of bill to center of pupil	Tip of bill to cere.	Base of culmen at front of beak to cere.	Head of culmen to end of middle claw	Tibia	Pare tibia	Tarsus	Middle toe with its claw.	Middle claw	Hallux with its claw	Claw of hallux	Length of bill to end of toes	Diameter of gape	Claw weight	Wt.
6046	Merganser americanus		♀ ad.	590	870	252	124	48	61	38	67	16	15	72	110	62	210	97	13	47	67	7.5	21	5	8.5	2	6		
6037	"		♂ ad.	668	965	270	130	53	66	34	77	20	18	81	118	62	225	106	13	52	73	9	22	5	9	3	4½		
6038	"		♂ ad.	670	960	280	130	55	69	36	82	23	19	84	122	65	230	104	11	52	73	10	23	6	9	4	4		
6047	Ardea herodias	135	♀ ad.	1080	1380	482	187	130	165	112	165	29	21	162	213	84	500	230	100	165	110	13	58	17	1390	14	3	15½	
6048	Merganser americanus		♂ ad.	680	985	290	133	54	70	36	82	22	18	85	121	65	222	104	12	50	70	9	22	5.2	9	3	3½		
6063	Dafila acuta		♀ ad.	550	860	256	116	51	57	39	60	21	18	78	105	53	171	80	11	40	54	8	18	4.5					
6097	Aythya americana		♀ ad.	510	850	237	80	47	58	33	59	26	22	77	106	57	200	93	13	41	69	8	23	4.8	57	6	9		
6109	Merganser americanus		♂ ad.	640	935	270	115	53	67	35	81	22	18	81	119	64	228	103	13	50	72	9	23	6	9.5	3	3		
6110	Aythya collaris		♂ ad.	444	750	210	68	46	45	55	30	23	20	70	94	49	187	84	12	37	65	8	21	4.5	507	1	10		
6111	Aythya affinis		♀ ad.	435	740	201	67	41	49	28	52	22	20	66	90	50	175	79	12	35	63	8	23	4	485	1	8		
6112	Charitonetta albeola		♂ ad.	385	615	173	83	28	36	20	42	18.5	16	16.3	53	76	49	165	70	7	36	60	7	20	4		0	14	
6110	Aythya collaris		♂ ad.	444	750	210	68	46	55	30	56	23	20	70	94	49	187	84	12	37	65	8	21	4.5	507	1	10		
6127	Actitis macularia		♂ ad.	950	1795	503	177	56	69	32	65	31	29	95	132	77	366	170	21	99	100	12.5	34	9		11	8	0	
6128	Gallinago delicata		♂ ad.	280	444	137	65	68			66			86	98	30	181	54	13	31	33	5	11	3	325			3½	
6130	Branta can. occid.		♀ ad.	863	1680	470	172	50	62	28	60	29	26	84	120	71	333	162	24	91	91	12	36	8.2	11.2				
6131	Charitonetta albeola		♂ ad.	372	605	172	85	27	34	20	41	18	15.5	53	77	50	162	67	6	35	57	7.5	18	3.5				15	
6132	"		♂ ad.	382	625	174	88	29	35	20	42	17	15	54	78	50	167	69	5.5	36	61	7.5	19	4				10	
6174	Oxyechus vociferus		♂ ad.	254	500	162	97	21		14	24						117	54	16	38	26	5			262				
6175	"		♀ ad.	269	532	171	105	22.5		14.5	25						118	54	15	35	27	6.2			275				
6182	Nycticorax nycticorax		♂ ad.	705	1240	335	137	81	88	67	116	21	14	112	162	78	327	144	98	90	91	12	36	18	900	15		length of plumage 225	
6213	Merganser americanus		♀ ad.	660	947	268	114	55	67	36	80	20	16	82	119	63	225	103	12	51	70	8.5	24	6	8.3	3	3		
6214	Halimastur luciae		ad.																										
621			ad.																										
6235	Larus delawarensis albi		♀ ad.	480	1190	370	143	43		20	67	14.5		70	98	57	190	89	25	54	45	8.5	12	4.5		8	1	6	
6236	Ardea herodias		♂ ad.	1180	1930	520	200	149			190	30	23	187	245	98	560	250	110	180	132	18	67	19	1535			longest head plumage 220	
6265	Actitis macularia		♀ ad.	202	346	110	58	23.5			27			36	49	26	84	38	10	24	22	4.3	7	2.6	228				
6284	Podilymbus podiceps		♂ ad.	375	623	142	43	20	*	14	35	13	13	39	66	47	194	92	9	42	65	8.5	17	2.7	480	6		16	
6285	Actitis macularia		♀ ad.	203	342	110	59	23			28						84	38	11	23.5	23.5	4	8.7	3	222				
6286	Fringa minutilla		♂ ad.	148	285	88	40	17									72	32	8	20	21	4	5.2	2	173	Apr 30, 1888			
6300	"		♂ ad.	143	282	90	40	17			17						70	32	13	19	19	4	5	1.7	166	May 1, 1888			
6308	Actitis macularia		♂ ad.	201	337	106	57	25			27						86	40	12	24	23	4	8	2.7	230				
6309	"		♀ ad.	198	340	108	54	22.5			26			36	48	25	85	39	12	24	22	4.2	7	2.8	226				

* Neck easily skinned over the head.

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Sex & Age.	Date.	Eye.	Width, eye + sl. of nos.	Total length.	Head & body.	Tail, vert.	Tail, hairs.	Tail, width.	Ears, crown.	Ears, notch.	Ears, width.	Ty of nose to front teeth to angle of mouth.	To eye.	To centre of pupil.	To ear.	Teeth.	Tip of ear acropint.	end hind leg.	Dist. eyes.	Chest girth.	Longest whisker.	Fore limb cov.	Alcraon.	Mams.	Width.	Cl.	Spine line.	Knee.	Pes.		
781-2	♂ ad.	July 23	7.5	10/6	290	180	102	122	45	5	11	14	7	20	18	23	36	38	48	44	252	20	100	27	66	50	25	7	7.5	97	60	36

The above meas. (no. 781) were copied on Table Dec. 16, 1889.

RETURN—Continued.

Nov. 6420 and 6421 are very *Huaca americana* ADDITIONAL ARTICLES.

		Length to end claws	Wt	Length	Alar expanse	Wing	Tarsus	Culmen	Nostril	Gape	Tibia	Tarsus	Middle toe	Middle claw	Wt	Length of bill	Width of bill	Height of bill	Distance eye to tip of bill	Tip of bill to end of claws	Tibia	Bare portion of tibia	Middle toe	Claw
6382	Dendroica graciae	♂ ad.	134	215	72	58	11.5	8.4	15	23	17	15	4.7	10.5	4.7	18	29	18	Ino. hazel, Bill black. Feet + claws brown.					
6383	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	July 24, 1888.																							
6412	Hydrochelidon	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56	10.5	8	14	23	17	14.5	4.3	10.7	5.2									
6412	"	♂ ad.	134	212	69	56																		

ADDITIONAL ARTICLES.

No.	Name	Sex & Age	Date	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Chord of culmen and cere	Cere	Tip of bill to eye	Tip of pupil to tip of bill	Tip of pupil to base of mandible	Distance between eyes	Iris	Lacuna	Middle toe with its claw	Middle claw	Hallux with its claw	Claw of hallux	Inner claw	Outer claw	Height of last hind toe	Weight
6049	<i>Accipiter cooperi</i>	♂ ad.	Febr. 10, 1888	423	765	242	208 ²⁰⁸	15	13.5	24	23	8.5	31	54	43	9	77	59	48	14.5	40	20	11.5	12		16
6050	<i>Passerella i. schistacea</i>	♂ ad.	Febr. 10, 1888	185	262	84	85	12	8.2	14			18	33	24	47	35	23	24	8.5	21	12	9	9	8	
6051	<i>Sitta aculeata</i>	♂ ad.	" "	153	283	95	50	20	14	25			28	41	23		24	19.5	21.5	7	22	9.5			5	
6052	"	♂ ad.	" "	158	292	97	54	21.5	16	25			29	43	22		25	18	20	7	21	9.5				
6053	<i>Regulus calendula</i>	? ad.	" "	115	189	63	45	10.5	6.5	13							24	20	14	38	12	5				
6054	<i>Sphyrapicus v. nuchalis</i>	♂ ad.	" "	229	410	135	90	24		27			34	46	235		34	22.5	24	9	12	5.8				
6055	"	♀ ad.	" "	217	397	130	85	23		27.5			33	45	23		30	21	22	8.5	11	5				
6056	<i>Aphelocoma s. arizonae</i>	♀ ad.	" "	342	525	172	154	32	23	36			43	65	37		57	45	33	10	27	12				
6057	"	♀ ad.	" "	344	530	173	155	31	23	36			44	66	38		57	44	35	10	27	12				
6058	<i>Cyanocitta p. macrolopha</i>	♂ ad.	" "	331	480	156	147	30	21	33			42	62	34		57	45	33	9	24	12				
6059	"	♂ ad.	" "	330	488	158	150	29	20	33			41	62	35		59	45	33	8.5	25	12				
6060	<i>Sturnella m. neglecta</i>	♂ ad.	" "	263	420	130	86	34	24	37			41	61	31		52	39	35	8	29	12.5				
6061	<i>Accipiter velox</i>	Imm.	" "	297	563	177	148	10	9.6	16	16	6	22	40	33	7	56	48	37	9.5	23	11.5	12	8		
6062	<i>Buteo borealis</i>	♂ ad.	" "	545	1325	408	233	24	22	44	36	15	52	84	63	13	116	90	63	24	54	31	30	19		
6064	<i>Aphelocoma woodh.</i>	♀ ad.	Febr. 13	301	408	131	143	27	19	31			38	59	33		52	40	30	10	23	10.5				
6065	<i>Melospiza f. montana</i>	♂ ad.	" "	170	231	75	77	11.5	8	12.5			17	30	21.5		33	22	20.5	5.3	15.5	7.5				
6066	"	♀ ad.	" "	168	227	72	78	13	8.5	13			17	31	22		33	22	20.5	5.7	16	7.5				
6067	<i>Aphelocoma woodhousei</i>	ad.	" "	307	415	134	147	27	19	33			38	58	34		51	40	32	9.3	23	11				
6068	"	♂ ad.	" "	309	412	135	148	27.5	18	31			38	59	34		54	41	30	9	22	10.5				
6069	<i>Musula m. propinqua</i>	♂ ad.	" "	279	440	146	121	22	14	30			35	50	30		49	34	20.5	7.5	21.5	8.7				
6070	<i>Melanerpes f. bairdi</i>	♂ ad.	" "	240	450	143	82	26		31			37	53	27		37	22	25	9	14	6.5				
6071	<i>Parus wollweberi</i>	♂ ad.	" "	135	202	69	61	9	6.2	10.2								17	14	4.2	13.5	5.7				
6072	<i>Regulus calendula</i> (subsp. cr.)	♀ ad.	" "	118	190	64	48	10	7	14								24	21	13.5	4	11	5			
6073	"	(nearby cr.)	♀ ad.	115	178	60	45	9.5	6	12.5								23	18.5	13	4	10	4.9			
6074	<i>Falco sparverius</i>	♂ ad.	" "	277	572	193	140	11		17	13	3	24	40	35		51	34	30	10	20	10	9.7	8.5		
6075	<i>Junco h. oregonus</i>	♂ ad.	" "	165	252	80	75	11.5		12								29	22	19.5	5	15.5	7			
6076	"	♀ ad.	" "	160	242	81	74	11.5		12								21	19	5.5	15	7				
6077	<i>Buteo virg. subarcticus</i>	♂ ad.	Febr. 16, 1888	498	1265	360	215	27		45	38	16	48	88	62	22	117	58	64	27		22	27	22	2.6	
6078	<i>Sphyrapicus v. nuchalis</i>	♂ ad.	Febr. 18, 1888	327	414	130	86	27		30			35	49	23		31	23	23	9	11	5				
6079	<i>Accipiter velox</i>	♂ ad.	" "	303	572	182	152	10.3		17	16	6	23	39	33		55	50	39	9.5	23	12	13	8		
6080	<i>Passerella iliaca</i> (subsp.)	♂ ad.	" "	195	267	85	89	12	8.5	14			18.5	32	24	47	32	24	25	10	21	11.5	9.5	7.7		
6081	<i>Aphelocoma s. arizonae</i>	♂ ad.	" "	356	535	177	162	31	21.5	36			43	65	37		61	45	36	11	27	12			12	

Measurements of Birds collected in 1888, in Arizona.

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Page in Journal	Name	Height of bill at front feathers	Sex & age.	Date	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Chord of culmen and cere together	Cere	Tip of bill to center of pupil	Tip of bill to acromion	Base of bill to acromion	Diameter of eye	Tibia	Tarsus	Middle toe with its claw	Middle claw	Hallux with its claw	Claw of hallux	Inner claw	Outer claw	Weight
6004*	1	<i>Colaptes cafer</i>		♂ ad.	Jan. 25	333	340	168	127	37	43	43		51	73	37	44	28	34	12	17	8				5 1/16	
6005	1	<i>Colaptes cafer</i>		♂ ad.	Jan. 25	333	346	171	121	37	43	43		56	78	37	45	33	33	11.5	17	7.5				1 1/16	
6009	1	<i>Pipilo aberti</i>		♂ ad.	Jan. 28	240	305	97	120	17	17.2			34	40	26	42	29.5	28	9	23.5	11.2				2 1/16	
6010	1	<i>Pipilo aberti</i>		♂ ad.	Jan. 29	242	307	97	121	16	17						40	29	28	9	22	11					
6011	1	<i>Sialia mexicana</i>		♀ ad.	Jan. 29	174	319	109	70	12	8.5	18					29	20	19	5.2	14	6.5					
6017		<i>Cyanocitta macrolopha</i>		♀ ad.	Feb. 3	310	465	152	137	27	19	32					56	40	32	9.5	24	12					
6018		"		♀ ad.	Feb. 3	309	458	148	135	28.5	19	33		40	61	35		43	32	9	25	12					
6019		"		♂ ad.	Feb. 3	322	477	157	146	28	20	33.5					58	43	33	10	27	12					
6020		<i>Aphelocoma woodhousei</i>		♂ ad.	Feb. 3	309	413	133	149	30	32	34		42	61	33		51	40	31	10	23.5	12				
6021		"		♀ ad.	Feb. 3	300	395	127	135	27	20	32		38	58	32		51	42	30	9	23	11.5				
6022		<i>Accipiter velox</i>		♂ juv.	Feb. 3	290	545	173	144	9	16	15.5	7.5				58	51	38	10	23	12	12.5	8.2			
6023		<i>Carpodacus frontalis</i>		♂ ad.	Feb. 3	288	288																				
6024		<i>Pipilo megalonyx</i>		♂ ad.	Feb. 3	230	290	95	116	15	9.8	16.5						36	29	28	8.8	22	12				
6025		<i>Carpodacus frontalis</i>		♂ ad.	Feb. 3	189	260	84	68	10.6	12.5							27	17	19	5	13	6				
6026		<i>Parus wollweberi</i>		♀ ad.	Feb. 3	130	207	67	60	10	7	11						23	18	14	4.8	12	5.5				
6027		"		♀ ad.	Feb. 3	130	202	66	61	8.7	6	10						24	17	14	4.9	12	6				
6028		"		♂ ad.	Feb. 3	134	209	67	62	10	7	10.5		15	27	18		24	18	14	4.3	12	5.5				
6029		<i>Regulus calendula</i>		♂ ad.	Feb. 3	119	190	64	58	10	7	13						22	20	13	4	11	5				
6030		<i>Dryobates scalaris</i>		♀ ad.	Feb. 3	178	323	102	68	20	22							26	17.5	19	7.5	10.3	5				
6031		<i>Colaptes cafer</i>		♂ ad.	Feb. 3	345	550	175	133	40	45							43	29	31	12	16	7				
6032		<i>Sceloporus cyanoceph.</i>		♂ ad.	Feb. 3	269	423	140	116	21	15	24		30	46	27		47	34	30	7.5	24	12			his straw color on feet, all.	
6034		<i>Pipilo mac. megalonyx</i>		♂ ad.	Febr. 6	215	281	88	106	13.5	9	16						37	27	27	9.5	22	13				
6035		<i>Colaptes cafer</i>		♀ ad.	Febr. 7	325	530	165	120	40	34	45		54	76	37		45	29	32	11	16	7.5				
6036		<i>Ceryle alcyon</i>	16	♂ ad.	Febr. 7	342	572	165	100	57	45	75		73	99	47		41*	12	22.5	8	11	6				
6045		<i>Falco mexicanus</i>		♀	Febr. 9	487	1100	350	205	22	21.5	32	37	6	45	70	58	11	95	60	66	19	46	24	21	17. 1 1/2	
6039		<i>Falco sparverius</i>		♂ ad.	Febr. 8	267	576	194	135	12	11	18	15	4	25	38	33		48	38	31	11	21	11	11	9	
6040		<i>Rhycolophanes macrourus</i>	8	♂ ad.	Febr. 8	154	266	93	59	12	9	14		19	32	23		30	20	18	5	16	8				
6041		<i>Sceloporus cyanocephalus</i>		♂ ad.	do	254	426	140	111	23	15	25		30	47	28		46	33	30	8	23	15				
6042		"		♂ ad.	do	272	428	140	113	23	16	25		31	48	28		46	35	31	8.5	25	12				
6043		"		♂ ad.	do	258	414	134	109	21	14.5	25		30	47	27		46	35	32	8	24	11				
6044		"		♂ ad.	do	269	433	143	120	23	16	25		31	47	27		47	34	29.5	7.5	26	12				

* Bare portion of tibia, 10.

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Name	Sex and age	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Depth of culmen and cere.	Cere	Tip of bill to center of pupil	Tip of bill to base of mandible	Base of bill to occiput	Libria	Tarsus	Middle toe with its claw	Middle claw	Hallux with its claw	Claw of hallux	Inner claw	Outer claw	Diameter of eye	Weight	Date
6326	<i>Geoph. trichas occid.</i>	♂ ad.	139	185	60	60	12.5	7.5	14			18	29	17.5	28	20	19	5.3	15	7					May 5, 1888
6327	"	♀ ad.	139	180	57	56	12	8	14			18	29	19	28	21	18	5.5	14	7					" " "
6328	<i>Minus polyglottus</i>	♀ ad.	259	356	104	128	19	12.5	27	^{inches, green yellow & blue}		29	46	28	46	33	28	7	20	9				1 1/2	" " "
6329	<i>Melanerpes torquatus</i>	♀ ad.	283	547	177	111	29	23	37	^{iris, hazel}	41	59	30.5	43	25	27	10	15.5	6.3	8.3	9.5			4	" " "
6330	<i>Buteo swainsoni</i>	♀ ad.	534	1335	425	225	24	32.5	42	34	13	48	76	56	105	68	63	20	50	26	25	15.5	12	36	1/2 May 5, 1888. Iris hazel.
6336	<i>Cardinalis superbus</i>	♀ ad.	232	310	99	116	18.5	14	20						36	26	24	7.7	18	8					May 7, 1888. ^{Wood} Brown
6337	<i>Corvus c.</i>	♂ ad.	647	1323	447	262	68	45	78	^{grad. tail}	55	88	128	63	115	69	65	20	53	35	20	16		35	May 8, 1888 do
6338	<i>Icterus c. nelsoni</i>	♂ ad.	214	284	93	98	20	14.5	35																May 8, 1888 ^{Squaw} Creek
6339	<i>Piranga r. cooperi</i>	♂ ad.	202	315	104	87	21	15.5	25			29	43	26	32	21	21	6.5	16	6.6					May 6, 1888 ^{Fort Verde}
6341	<i>Piranga r. cooperi</i>	♀ ad.	216	323	103	84	21	16	25			29.5	43	26	32	21	21	6.3	17	7					May 9, 1888. ^{Sycamore} Creek
6333	<i>Stellula calliope</i>	♂ ad.	98	115	46	29	18		23			37	34	14.5		4									May 6, 1888. ^{Indian} Mile
6334	"	♂ ad.	95	112	45	28	19		24			28	35	14		4									May 6, 1888. do
6335	<i>Poocætes gr. confinis</i>	♂ ad.	161	270	82	66	11		13			28 20.5 19	28	20.5	19	6.2	15	7.8							May 6, 1888 ^{Sycamore} Creek
6339	<i>Buteo borealis calurus</i>	♀ ad.	580	1420	430	250	30		46	42	16	56	95	68	131	93	70	34	59	33	31	19	15.5		May 8, 1888 ^{Squaw} Creek
6342	<i>Dendroica nigrescens</i>	♂ ad.	134	210	67	57	11	7.5	14.5						23	18.5	13.5	4	11	4.5					May 9, 1888 ^{Hamer's} Ranch
6343	"	♂ ad.	131	202	64	55	10	6.7	13.5						23	18	14	4	11	4.7					May 9, 1888 do
6344	<i>Helminthophila c. lutea</i>	♂ ad.	128	196	65	50	11	8	13						24	18	15.5	4	12	5					May 9, 1888 do
6340	<i>Cardinalis cardinalis</i>	♂ ad.	243	322	103	118	20	14	21			26	41	28	39	28	26	7	11	19					May 9, 1888 ^{Indian} Creek
6345	<i>Melanerpes f. bairdii</i>	♂ ad.	246	458	144	91	26	19.5	30			37	54	30	35	22	24	8.7	13	6					May 9, 1888 ^{Hamer's} Ranch
6346	<i>Pipilo fuscus mex.</i>	♀ ad.	213	296	94	102	17		18								25	25	7	18	8				May 9, 1888 ^{Julie Spring}
6347	<i>Habia melanoceph.</i>	♂ ad.	213	327	101	86	18.7	13	22	^{Height width}	13	12	25	40	27		25.5	24	7	17	7				May 9, 1888 ^{Squaw} Peak
6348	<i>Chondestes g. strigata</i>	♀ ad.	170	264	84	68	13		15						29	20	20	5	14.5	6					
6349	"	♂ ad.	185	298	95	80	13		15						29	22.5	20.5	5.1	14.5	6					
6350	<i>Spizella s. arizonæ</i>	♀ ad.	141	223	73	65	10		11						24	17	17	4.8	13.3	6.2					
6351	<i>Seturus c. nelsoni</i>	♀ ad.	201	270	88	92	18	13	21.5						33	23	20.5	6	16	6.4					
6352	<i>Erethopus richardsoni</i>	♂ ad.	162	277	92	72	13.5	10	19.5						20	14	13	5.5	11	6					
6353	<i>Melanerpes f. bairdii</i>	♀ ad.	240	445	145	90	24.5	18	28			35	50	26.5	35	20.5	23	8.5	13	6					
6354	<i>Sphecoecus woodhousei</i>	♂ ad.	224	1013	53	30	22	36							57	40	30	9.3	25.5	10.5					
6355	<i>Carpodacus cassinii</i>	♀ ad.	169	283	94	67	12.5		15.5						30	19	20	5.7	15	6.5					
6356	<i>Nycticorax nycticorax macrurus</i>																								Measurements on another table.
6357	<i>Pyrocephalus r. mex.</i>	♂ ad.	152	269	86	65	14.5	10	19						23	17	15	5	10.5	5					
6358	"	♂ ad.	148	259	82	62	14	9	18						23	16	14.5	5	10	4.8					
6359	"	♀ ad.	153	259	81	62	14	9.3	19						23.5	17	14.5	4.3	10	4.6					

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ADDITIONAL ARTICLES.

No.	Name	Sex and age	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Chord of culmen = ment. cere.	Cere	Tip of bill to edge of pupil	Tip of bill to end of foot	Base of bill to occiput	Tibia	Tarsus	Middle toe with its claw	Middle claw	Hallux with its claw	Claw of hallux	Inner claw	Outer claw	Diameter of eye	Weight	Date
6271	<i>Icterus c. nelsoni</i>	♂ ad	216	288	93	102	31		23						34	22	23	7	16	7					Apr. 25, 1888
6272	<i>Corpodacus frontalis</i>	♀ ad	151	241	79	63	10.5	8	12						26	16.5	18	5.1	13	6					" " "
6273	<i>Mimus polyglottus</i>	♂ ad	226	373	121	134	19	12	26						43	32	28.5	6.7	20	8					" " "
6274	<i>Pyrocephalus r. mex</i>	imm.	149	259	81	60	14	10	19						23	18	14.2	5	10.5	5.5					" " "
6275	<i>Melospiza f. fallax</i>	♀ ad	156	211	67	72	12	8.2	13			17	30	21.5	28	20.5	19.5	5	15	7					" " "
6276	<i>Mimus polyglottus</i>	♂ ad	271	378	118	132	25	13	25						47	33	31	8	21	10					" " "
6277	" "	♂ ad	273	372	121	131	20	13	25						46	33	28.5	7.5	20	9.7					" " "
6278	<i>Icterus c. nelsoni</i>	♂ ad	212	293	95	98	21		22.7						35	24	23	6.2	17	7					" " "
6279	<i>Stelgidopteryx ser.</i>	♂ ad	144	330	122	58	7.7	4.8	14						21	11	16	5	10.2	5					" " "
6280	<i>Empidonax obscurus</i>	♂ ad	156	248	79	68	14	9.7	17.5						25	18.5	15	5	12	6					" " "
6281	<i>Amphispiza bilineata</i>	♂ ad	157	224	72	72	12		12						25	18	17	5	13	6					" " "
6282	<i>Melanerpes torquatus</i>	♀ ad	274	543	175	105	27	21	34			39	56	29	38	26	27	10	16	6.2	8	9	5.7	3½ oz	
6283	<i>Colaptes melanerpes</i>	♂ ad	185	292	102	73	15		16			21	36	24	36	26	24	7	18	7.2	5.2	5.2			
6284	<i>Podilymbus podiceps</i>	♂ ad	Measurements on other table. Irides, hazel. Bill grayish flesh-color, darker above, and with black (passing through nostrils) transversely. Legs & feet, dusky, plumbeous; claws edged with horn-color.																						
6285	<i>Actitis macularia</i>	♀ ad	Measurements on another table																						April 30, 1888
6286	<i>Tringa minutilla</i>	♂ ad	do																						" " "
6287	<i>Molothrus albobuccus</i>	♀ ad	175	288	94	68	14	9	15			19	31	20.5	31	21	22	6.2	17	8.3					" " "
6301	<i>Icterus bullocki</i>	♂ ad	204	320	103	82	19	13	20.5						35	23	23	6.8	19	8					May 1, 1888
6311	<i>Astragalinus tristis</i>	♀ ad	138	240	80	57	10.5	8.7	12			16	26	18	23	13.5	15.5	5.3	13	6					May 3, 1888
6312	<i>Hirundo erythrogastra</i>	♂ ad	195	324	120	101	8	6	16			immature	55	19.5	30	22	22	10.8	16	5	12	5.2			
6313	<i>Myiad. pusillus</i>	♀ ad	127	175	58	53	9.5	6	12.5						25	17	14	4.2	11	4.8					
6314	<i>Amphispiza bilineata</i>	♂ ad	146	215	68	68	11.5		12.7						26	17.5	16.5	5	13	6.4					
6315	" "	♀ ad	144	214	68	64	11		12.3						26	19	18	5.1	12.5	6.1					
6316	<i>Sateria virens longic.</i>	♂ ad	193	258	85	89	15.5	11	19			24	5	38	25	35	26	21	5.7	15.5	6				
6317	" "	♂ ad	195	255	81	88	15	11	20.5			25	39	25	36	27	22	6	16.5	7.4					
6318	<i>Vireo gilvus swainsoni</i>	♀ ad	139	225	71	55	11.7	7.5	16						23	18.7	13	4	11	5					
6319	<i>Zonotrichia leucoph.</i>	♂ ad	184	256	83	84	11.7	8.1	13.5			19	31.5	22.5	32	24	23.5	8	17.7	9					
6320	" "	♂ ad	182	265	83	81	11.3	8	13			18	32	23	33.5	24	23	7	18	8.8					
6321	" "	♂ ad	186	267	84	83	12.7	8.1	14			19	33	23.5	35	24	23	6	17	8					
6322	" "	♂ ad	183	263	87	83	11.5	8	14			19	34	24	34	25	24	8	18	9.5					

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No.	Sex and age	Page in journal	Locality	Date	Height of corac.	Length to end of claw.	Length	Alar expanse	Wing	Tail	Culmen	Gape	Dip of bill to center of pupil.	Dip of bill to occiput.	Base of culmen to occiput.	Distance of eye.	Head of tibia to end of middle claw.	Tibia.	Bare portion	Tarsus	Middle toe with its claw.	Middle claw	Bill measured from nostril.
5111	♀ ad 140		Peck's Lake, Arizona	Jan. 23 1887		265	265	533	175	108	22.5	24						116	54	18	36	25	5.5
5186	♂ ad 181		Fort Verde, Arizona	Mar. 26 1887	Same.	250	258	520	169	103	20.5	23						107	48	18	36	26	4.5

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ADDITIONAL ARTICLES.

No.	Sex	Age	Locality	Date	Tail	Crown	Nose	Ears	Length	Wing	Alar	Claw	Other		
2685	♂ ad	59	Fort Verde Arizona	Mar. 28 th 1884	240	512	109	92	20	21	15	31	26	6	Base skin (exterior side) around eye, red, skin dark brown. Bill, black. Skin from of foot, and the toes, greenish flesh color. Feet greenish blackish, claws color same as above. Ovary contained an egg 4 mm. in diameter. Color like same as above.
2714	♂ ad	62	Fort Verde Arizona	April 10 th 1884	255	495	140	102	16.8	22	20	35	26	4.5	
2715	♀ ad	62	Fort Verde Arizona	April 10 th 1884	240	519	145	105	22	23	19	36.5	27	6	
2716	♂ ad	62	Fort Verde Arizona	April 10 th 1884	252	515	164	104	21	21	19	36	26	5.5	
2823	♀ ad	76	Fort Verde Arizona	May 1 st 1884	254	514	168	92	21.5	23	18	34	25	6	See Journal for color of parts. Tail measured to end of filamentous knob on anal.
2832	♂ ad	77	Fort Verde Arizona	May 2 nd 1884	260	522	163	104	22	23	20	34	26.5	6	
3002	♀ ad	104	Fort Verde Arizona	June 11 th 1884	254	520	160	93	22	24	20	36.5	27	6	
3185	♀ juv.	140	Fort Verde Arizona	Aug. 8 th 1884	278	520									
3198		145	Fort Verde Arizona	Aug. 13 th 1884	258	525	168	132	19	23	19	37	25	6	See Journal for description No caudal prolongation.
3232	♂ ad	179	Fort Verde Arizona	Aug. 24 th 1884	230	500	158	85	18	22	18	33	23.5	5.5	
3254	♀ juv.	181	Fort Verde Arizona	Aug. 26 th 1884	245	493	154	123	21	23	22	35	25	5	
3255	♀ juv.	181	Fort Verde Arizona	Aug. 26 th 1884	245	495	155	120	21	23.5	22	36	24	5	
3256	♂ juv.	181	Fort Verde Arizona	Aug. 26 th 1884	245	485	155	124	21	23	22	33.5	25	5.5	See Journal for remarks.
3333	♀	206	Fort Verde Arizona	Sept. 19 th 1884	261	500	156	107	20	22	19	35	26.5	6	
3353	♀ ad	212	Fort Verde Arizona	Sept. 25 th 1884	267	515	161	111	20	23.5	19	38	26	6.5	
3360	♀ ad	222	Fort Verde Arizona	Sept. 28 th 1884	263	522	173	110	19	23	19	32	24	6	
*3048	♀ ad	118	Fort Verde Arizona	June 18 th 1884	252	515	155	96	22	23.5	20	35	25	5	Tail measured to end of filamentous knob on anal. Length to end of toes, 270. Length to end of toes, 250. Length to end of toes, 250. Length to end of toes, 250. Length to end of toes, 254.
3608	♀ ad	242	Fort Verde Arizona	Dec. 4 th 1884	270	512	168	125	23	23	19	35	25	4	
3620	♂ ad	242	Fort Verde Arizona	Dec. 15 th 1884	243	532	164	104	21.5	23	21	36	29	6	
3650	♂ ad	266	Fort Verde Arizona	Dec. 22 nd 1884	260	500	159	106	20	21	16	34	26	5	
3651	♂ ad	268	Fort Verde Arizona	Dec. 22 nd 1884	262	508	165	105	21	23	14	35	24	5	Length to end of toes, 270. Length to end of toes, 250. Length to end of toes, 250. Length to end of toes, 254.
3794	♀ ad	330	Fort Verde Arizona	Feb. 25 th 1885	260	530	168	103	21	23	20	39	27	6	
3795	♂ ad	330	Fort Verde Arizona	Feb. 25 th 1885	256	508	168	107	20.5	23	18.5	33	25	6	
3796	♀ ad	331	Fort Verde Arizona	Feb. 25 th 1885	266	535	178	113	22	24	19	36	25	6	
3797	♂ ad	331	Fort Verde Arizona	Feb. 25 th 1885	250	510	167	101	22	23	19	37	26	4.0	Length to end of toes, 254.
3809	♂ ad	333	Fort Verde Arizona	Mar. 5 th 1885	250	497	160	103	20.5	24	20	34	25	4.5	
3811	♀ ad	333	Fort Verde Arizona	Mar. 7 th 1885	261	518	172	106	19.5	23.5	19	36	26	5	
3812	♂ ad	334	Fort Verde Arizona	Mar. 7 th 1885	255	510	167	104	20	23	17.5	37	28	7	
3955	♂ ad	8	San Simon, Arizona	Apr. 29 1885	254	515	158	100	20	22	15	35	25	5.5	Length to end of toes, 262. Length to end of toes, 263.
3956	♀ ad	8	San Simon, Arizona	Apr. 29 1885	260	507	160	100	21	22.5	17	36	26	5.5	
4867	♂ ad	223	Fort Verde, Arizona	May 26 1886	253	512	164	100	20	22	16	34	28	5	110 47
4868	♀ ad	224	Fort Verde, Arizona	May 26 1886	264	515	167	100	20	23	17	35.5	25	5.8	114 53

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ADDITIONAL ARTICLES.

Harporhynchus curvirostris palmeri Ridgw. Palmer's Thrasher.

No.	Sex and age	Page in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Tarsus	Middle toe and claw	Claw alone	Hallux with its claw	Claw of Hallux	Dip of bill to center of pupil	Tip of bill to back of head	From ear to back of head	To occiput	
3849	♂ ad	2	Near Hall's Rancho on New River, Arizona	Mar. 28 1885	289	359	116	131	30	22	35	34	32	8	Irides, red.						
3850	♂ ad	2	Near Hall's Rancho on New River, Arizona	Mar. 28 1885	296	360	104	126	31	25	38	32	32	8							
3851	♂ ad	2	Near Hall's Rancho on New River, Arizona	Mar. 28 1885	294	365	111	120	34	26.5	38	36	36	9							
3852	♂ ad	2	Desert Station, Arizona	Mar. 28 1885	295	345	110	125	32	25	37	32	32	9	Irides, red.						
3853	♀ juv.	2	Near Hall's Rancho on New River, Arizona	Mar. 28 1885	265	245															
3862	♀ ad	2	Maricopa, Arizona	April 1 1885	300	355	115	129	33	26	39	34	33	9	Parent of nest no.	$\frac{9}{3}$					
3877	♀ ad	4	Red Rock, Arizona	April 3 1885	280	348	108	121	33.5	25	38	33.5	32	9	Parent of Set no.	$\frac{3}{3}$					
3879	♂ juv.	4	Near Red Rock, Arizona	April 3 1885	213	300	85	65							Irides, grayish; mouth, yellow; mandibles, tarsi, feet and claws, dusky.						
4045	♂ ad	14	New River, Arizona	May 15 1885	290	360	109	122	32	25	37	36	35	10	In worn breeding plumage.						
4046	♂ ad	14	Desert Station, Arizona	May 15 1885	295	368	112	130	31	25	36	35	35	9	In worn breeding plumage. Parent of Set no.	$\frac{9}{3}$					
5064	♂ ad	105	Fort Verde, Arizona	Nov. 28 1886	295	365	111	137	34	27	38	34.5	37	8.5	24	12	44	63	36		

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ADDITIONAL ARTICLES.

Geothlypis cinereus bendirei (Coues) Bendire's Thrasher.

No.	Sex and age	Page in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Tarsus	Middle toe and claw	Claw alone	Remarks.
3861	♂ ad.	2	Maricopa, Arizona	April 1 1885	269	348	109	127	26	20	31	34	32	8	
3863	♂ ad.	2	Sweet Water, Arizona	April 1 1885	257	325	99	116	25	19	30	34	30	8	Parent of set no. 13/3
3868	♂ ad.	2	Casa Grande, Arizona	April 2 1885	260	328	101	116	26.5	20.5	31	33	31	8	
3878	♂ ad.	4	Near Red Rock, Arizona	April 3 1885	270	348	112	124	25	19.5	31.5	34	33	9	Parent of set no. 3+1
3880	♀ juv.	4	Near Red Rock, Arizona	April 3 1885	166	255									Young taken from nest.
3884	♀ ad.	4	Near Killito Station, Arizona	April 4 1885	260	330	101	123	26	19	30	33	31	8	Parent of nest of 4 eggs, far advanced in incubation; measuring 26x20, 27x20, 27x19, 26x19 m.m.
3998	♀ juv.	10	Killito Station, Arizona	May 8 1885											Young still with parents.
4002	♂ ad.	10	Picacho Station, Arizona	May 9 1885	272	359	108	124	25	19	30	36	30	7	

ADDITIONAL ARTICLES.

Icteria virens longicauda (Laur.) com. Long-tailed Chat.

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ADDITIONAL ARTICLES.

Unthus ludovicianus (Gm.) Licht. American Titlark.

No.
Sex and Age.
Page in Journal.

Locality

Date

Length

Alar expanse

Wing

Tail

Bill meas-
ured from nostril

Gape

Tarsus

Middle toe
and claw

Claw alone

Claw of hallux

Culmen.

Hallux with
its claw.

Feet

Remarks.

3483	♂ ad.	245	Stras Lake, 25 m. north of Ash Fork, A.T.	Nov.	7	1884														See Journal.
3610	♂ ad.	242	Fort Verde,	Arizona	Dec.	4	1884	168	270	87	73	9.5	17	23	20	5	10			Irides, hazel. Bill, with maxilla, brownish black; mandible, yellowish at base, shading into brownish black at tip. Tarsi and feet, dark brown; Claws, blackish.
3611	♂ ad.	243	Fort Verde,	Arizona	Dec.	4	1884	165	273	87	72	9	16.5	23	19	5	9			Colors same as No. 3610.
3612	♂ ad.	243	Fort Verde,	Arizona	Dec.	4	1884	170	276	87	70	9.5	17.5	22	19	5	10			Colors of parts same as No. 3610.
3613	♂ ad.	243	Fort Verde,	Arizona	Dec.	4	1884	170	279	87	71	9	17	23.5	20	5	9			Colors of parts same as No. 3610.
3614	♀ ad.	243	Fort Verde,	Arizona	Dec.	4	1884	164	268	84	68	9	17	22.5	18.5	4.5	9			Colors of parts same as No. 3610.
3615	♂ ad.	243	Fort Verde,	Arizona	Dec.	4	1884	170	277	92	74	9	17	22.5	20.5	5.5	11			Colors of parts same as No. 3610.
3776	♂ ad.	328	Fort Verde,	Arizona	Feb.	21	1885	172	282	87	70	9	17	22.5	20	5	8.5			Culmen, 12.
3814	♂ ad.	334	Fort Verde,	Arizona	Mar.	7	1885	166	276	88	67	9	17	23	18	4	8			Culmen, 12.
5141	♂ ad.	164	Fort Verde,	Arizona	Feb.	23	1887	170	274	86	68	9	16.5	21	18	5	9.6	13	17	
5184	♂ ad.	181	Fort Verde,	Arizona	Mar.	26	1887	170	272	88	68	9	16.5	23.5	19	4.8	9	13	18	
5185	♀ ad.	181	Fort Verde,	Arizona	Mar.	26	1887	168	262	82	65	9	17.5	23	19	5.2	12	13	22	
5869	♀ ad.	307	Fort Verde,	Arizona	Dec.	22	1887	164	269	87	68	9	16	20	18	5	8	12.5	16	28
5870	♀ ad.	307	Fort Verde,	Arizona	Dec.	22	1887	161	252	80	64	9.2	17	22	19	5.6	12.5	13.2	21	30
5882	♀ ad.	307	Fort Verde,	Arizona	Dec.	22	1887	164	260	85	64	9.6	16.5	22	18.5	5	12.5	13	21	29

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ADDITIONAL ARTICLES.

No.	Sex and Age	Page in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Tarsus	Middle toe and claw	Claw alone	Remarks.
															<i>Carporhynchus oedivivus lecontei</i> (Lawr.) Couss. Leconte's Thrasher.
3857	♀ ad	2	Six miles north of Maricopa, A. T.	Mar. 30 1885	280	310	95	127	33	24	38	32	29	8	A mated pair. Irides, reddish hazel. Bill, plumbeous black. Tarsi and feet, greenish olive; claws, dusky olives.
3858	♂ ad	2	Six miles north of Maricopa, A. T.	Mar. 30 1885	284	323	102	134	32	24	36	32	30	8	
3860	♀ ad	2	Maricopa, Arizona	April 1 1885	283	316	101	133	33	25	37	31	28	8	Irides, reddish hazel. Bill plumbeous black.
4009	♂ juv.	10	Near Casa Grande, Arizona	May 11 1885	278	319	98	125	29	22	34	33	30	8	Young of the year.
4010	♂ ad	12	Between Casa Grande and Sweet Water, Arizona	May 11 1885	282	313	100	128	33	25	37	33	30	8	A mated pair taken with nest and eggs.
4011	♀ ad	12	Between Casa Grande and Sweet Water, Arizona	May 11 1885	274	311	95	120	33	25	37	32	29.5	8	
4031	♂ ad	12	Desert Station, Arizona	May 14 1885	285	320	102	133	32	24	36	32	30	8.5	A mated pair; probably breeding. Irides, dark hazel. Bill and claws plumbeous black. Tarsi and feet, plumbeous.
4032	♀ ad	12	Desert Station, Arizona	May 14 1885	272	310	97	124	30	22	33	30	29	8	

RETURN—Continued.

ADDITIONAL ARTICLES.

Aphelocoma woodhousei (Baird) Ridgw. Woodhouse's Jay.

No.	Sex and Age	Page in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Gape	Tarsus	Middle toe and claw	Clews alone	Remarks
2757	♂ ad	67	Agua Fria Arizona	April 19 1884	305	410	127	148	29	33	40	31	9	Sides, hazel. Bill, tarsi, feet and claws, black.
2772	♀ ad	69	Whipple B'ks Arizona	April 23 1884	290	387	121	134	27	32	39	29	9	Colors same as No. 2757.
2773	♂ ad	69	Whipple B'ks Arizona	April 23 1884	312	404	130	153	26.5	31	37	31	9	Colors same as No. 2757.
2782	♂ ad	71	Near Whipple B'ks Arizona	April 25 1884	322	433	134	156	29	34	41	32	9	Colors same as No. 2757.
2783	♀ ad	71	Near Whipple B'ks Arizona	April 25 1884	296	389	121	143	26	30	39	27.5	8	Colors same as above.
2784	♂ ad	71	Agua Fria Arizona	April 25 1884	314	409	125	150	28	32	41	31	9	Colors same as above.
2984	♀ ad	55	Upper Canon near Ft. Verde, Arizona	June 7 1884	298	383	110	140	29	32	36	30	9	Sides, dark brown. Bill, legs, feet and claws, black.
3274	Imm.	185	Fort Verde Arizona	Sept. 1 1884	305	405	126	147	28	34	40	31	9.5	Colors as above.
3409	♀ ad		Fort Apache Arizona	Oct. 13 1884	297	403	122	141	26.5	30.5	40	31.5	10	Sides, hazel. Bill, legs, feet and claws, black.
3410	♂ ad		Fort Apache Arizona	Oct. 13 1884	315	420	130	155	27	31	42	31	9.5	Colors same as No. 3409.
3510	♀ ad	248	Pino Springs, Mojave Co., Arizona	Nov. 15 1884	11.75	15.70								
3592	♀ ad	235	Whipple B'ks, Arizona	Nov. 25 1884	292	393	125	143	27	31	39	29	9	Sides, hazel. Bill, blue-black, slightly tipped with horn color. Tarsi, feet and claws, black.
3726	♀ ad	314	Indian Garden on Oak Creek, A.T.	Jan. 17 1885	300	399	126	148	27	32	42	32	9	Colors same as No. 3726.
3727	♀ ad	314	Indian Garden on Oak Creek, A.T.	Jan. 17 1885	295	392	124	140	26	29	38	31	9.5	Colors same as No. 3726.

RETURN—Continued.

Corpodacus frontalis Say

ADDITIONAL ARTICLES.

House Finch.

[illegible]

RETURN—Continued.

ADDITIONAL ARTICLES.

Carpodacus frontalis Say. House Finch.																								
No.	Sex and age.	Page in Journal.	Date	Locality	Length	Alar expanse	Wing.	Tail.	Culmen	Gape.	Bill, measured from nostril.	Tip of bill to center of pupil.	Tip of bill to occiput.	Base of culmen to occiput.	Tibia.	Tarsus.	Middle toe with its claw.	Middle claw.	Hallux with its claw	Length of hallux.	Height of bill at base	Width of bill at base	Middle toe alone.	
2676	♂ ad.	57	Mar. 22, 1884	Prescott, Arizona.	161	253	79	67	10	11							17	18	5	"Is, hazel."				
2677	♂ ad.	57	Mar. 22, 1884	do.	160	255	80	70	11	12							17	18	5	"Is, hazel."				
2798	♂ ad.	73	Apr. 28, 1884	Fort Verde, Arizona.	155	253	77	70	9.5	10.5							17	19	5.5					
3638	♂ ad.	267	Dec. 17, 1884	"	148	248	78	63	10	11							17	19	6					
3639	♂ ad.	267	Dec. 17, 1884	"	158	258	80	67	11	12							18	20	5					
3819	♂ ad.	336	Mar. 14, 1885	"	154	245	80	70	11	11.5							17	18.5	5			8	7.5	
4281	♂ ad.	52	Nov. 13, 1885	"	164	257	80	69	11	12							19	21.5	5				16	
4440	♂ ad.	110	Jan. 21, 1886	"	160	267	84	69	10	12		17	29	22			18	19	5.5	13	6	9.5	8.5	14.5
4509	♂ ad.	135	Mar. 1, 1886	"	158	260	83	69	11.5	12							17	19	5	13.5	6	10	9	
4517	♂ ad.	136	Mar. 1, 1886	"	154	247	80	66	11	12.5							17	18	5					
4578	♂ ad.	142	Mar. 6, 1886	"	155	247	82	67	11	12							18	20	6					
4604	♂ ad.	155	Mar. 15, 1886	"	155	250	80	68	10.5	12							17	18	4					
4605	♂ ad.	155	Mar. 15, 1886	"	157	253	84	68	11	13							17	19	5					
4606	♂ ad.	155	Mar. 15, 1886	"	158	251	81	68	10	12							17	19.5	5.2					
4607	♂ ad.	155	Mar. 15, 1886	"	157	250	81	66	10.6	12							18	20	6					
5703	♂ ad.	284	Nov. 1, 1887	"	156	253	83	67	10.7	12							18	20	5.6					
6025	♂ ad.	5	Feb. 3, 1888	Payson, Arizona	159	260	84	68	10.6	12.5						27	17	19	5	13	6			
3065	♀ ad.	123	June 23, 1884	Prescott, Arizona.	155	248	76	66	11	13							18	18	5					
3098	♀ ad.	137	July 14, 1884	"	155	240	78	66	12.5	13							18	19	5.5					
3742	♀ ad.	320	Jan. 30, 1885	Fort Verde, Arizona.	152	252	80	66	11	11.5							19	18	5					
4057	♀ ad.	14	May 17, 1885	Black Canyon, Arizona.	155	242	78	62	11	11.5							18	18.5	6					
4085	♀ ad.	347	June 6, 1885	Fort Verde, Arizona.	156	243	78	64	12	12							20	20	6					
4608	♀ ad.	155	Mar. 15, 1886	"	149	239	77	62	10.5	12							16.5	18	5					
4674	♀ ad.	166	Mar. 25, 1886	"	153	241	77	65	10.5	11.5							17.5	19	5					
5883	♀ ad.	307	Dec. 22, 1887	"	155	250	80	64	11.5	12.4	9					27	18	18	5	13	5.8			
5920	♀ ad.	310	Jan. 2, 1888	"	152	244	79	64	10.5	11.7	8					25.5	17	17	5.1	13	6			
5921	♀ ad.	310	Jan. 2, 1888	"	158	249	80	68	11	12.3	8.5					26	18.5	18.3	5.5	13	6			

* Exchange No. 3638 from the table of measurements.

(over)

RETURN—Continued.

ADDITIONAL ARTICLES.

Carpodacus cassinii Baird. Cassin's Purple Finch.

No.	Sex and age	Page in journal	Date.	Locality	Length	Max. expanse	Wing.	Tail	Culmen.	Gape.	Height of bill at base	Width of bill at base.	Tarsus.	Middle toe with its claw.	Middle claw.
4679	♀ ad.	166	Mar. 25, 1886.	Fort Verde, Arizona.	168	280	92	67	12.5	14			18	20	5-
4680	♀ ad.	166	Mar. 25, 1886	do.	159	270	90	64	11	13			17	19	5.6
4640	♂ juv.	158	Mar. 18, 1886.	Fort Verde, Arizona.	164	281	92	64	14	16.5			18	20.5	5.2
4676	♂ juv.	166	Mar. 25, 1886	do.	170	283	94	68	13	14			19	22	6.2

RETURN—Continued.

ADDITIONAL ARTICLES.

Carpodacus cassinii Baird. Cassin's Purple Finch.																								
No.	Sex and age.	Page in journal.	Date.	Locality.	Length	Alar expanse	Wing	Tail	Culmen	Gape.	Height of bill at base.	Width of bill at base.	Tarsus.	Middle toe with its claw.	Middle claw.	Hallux with its claw.	Length of hallux.	Bill from nostril.	Tip of bill to center of pupil.	Tip of bill to cere.	Base of culmen to occiput.	Iris.	Tibia.	
3384	♂ ad.	⁴³⁰ 145	Oct. 6, 1884	Sanke near head of Canon Creek, Mogollon Mountains, central Arizona.	163	276	86	68	12	15			19	20	6				"Iris, hazel."					
4507	♂ ad.	135	Mar. 1, 1886	Fort Verde, Arizona.	168	279	94	70	14	16	11	9.5	19	21	6	13	7							
4514	♂ ad.	136	Mar. 1, 1886	do.	172	286	95	69	14	16			20	22	7									
4515	♂ ad.	136	Mar. 1, 1886	do.	165	283	94	68	14.5	16			17.5	21	5.5									
4533	♂ ad.	138	Mar. 2, 1886	do.	165	283	95	69	13.5	14			19	21	5.5									
4545	♂ ad.	140	Mar. 5, 1886	do.	170	293	91	69	14	15			19	20	6									
4546	♂ ad.	140	Mar. 5, 1886	do.	167	288	95	68	13	14.5			18.5	20	5									
4601	♂ ad.	155	Mar. 15, 1886	do.	166	286	96	67	14	16			18	21	6									
4602	♂ ad.	155	Mar. 15, 1886	do.	168	274	93	66	13	16.5			19	20	5									
4603	♂ ad.	155	Mar. 15, 1886	do.	168	284	95	64	13	16			18	20	5.3									
4639	♂ ad.	158	Mar. 18, 1886	do.	168	292	98	69	13	15			18	21	6									
4664	♂ ad.	164	Mar. 23, 1886	do.	171	283	95	67	12	14			19	20	6									
4665	♂ ad.	164	Mar. 23, 1886	do.	170	285	95	66	13	15			19	20	5									
5962	♂ ad.	313	Jan. 11, 1888	do.	176	297	100	71	14	16			20	21	6	16	6.5	11	20.5	35	24	30		
3385	♀ ad.	⁴³⁰ 145	Oct. 6, 1884	Sanke near head of Canon Creek, Mogollon Mountains, central Arizona.	162	277	86	66	12.5	16			20	20	5				"Iris, hazel."					
3566	♀ ad.	233	Nov. 17, 1884	Pinle Springs, near Grand Canon of the Colorado, Arizona.	161	272	93	68	12.5	13			20	18	6									
3567	♀ ad.	233	Nov. 17, 1884	do.	170	277	90	68	13	14			20	20	6									
4435	♀ ad.	110	Jan. 20, 1886	Fort Verde, Arizona.	169	284	96	70	13	15			16.5	20	7									
4570	♀ ad.	135	Mar. 1, 1886	do.	163	276	93	64	12	14.5			17	20.5	5.5									
4513	♀ ad.	136	Mar. 1, 1886	do.	165	277	89	66	13.5	14.5			18	20	5.5									
4516	♀ ad.	136	Mar. 1, 1886	do.	164	284	95	66	12.5	15			19	21	6.5									
4542	♀ ad.	139	Mar. 2, 1886	do.	165	283	93	64	12.5	14			19	19	5									
4543	♀ ad.	139	Mar. 2, 1886	do.	170	282	94	65	13	15			20	20.5	5.5									
4554	♀ ad.	140	Mar. 5, 1886	do.	159	277	90	64	13	15			19	19	5									
4609	♀ ad.	156	Mar. 15, 1886	do.	168	288	94	65	12.5	14.5			18	21	5.6									
4610	♀ ad.	156	Mar. 15, 1886	do.	163	280	92	68	13	15			18	21	5.5									
4611	♀ ad.	156	Mar. 15, 1886	do.	174	295	98	74	14	16			20	23	6									
4612	♀ ad.	156	Mar. 15, 1886	do.	166	280	92	64	14	16			19	20	5.3									
4613	♀ ad.	156	Mar. 15, 1886	do.	163	269	89	60	13	16			17.5	20.5	5.5									
4641	♀ ad.	158	Mar. 18, 1886	do.	159	275	91	65	12.5	15			18.5	21	5	6								
4678	♀ ad.	166	Mar. 25, 1886	do.	172	293	96	69	13	15			18	21	6									
* Sex position					(Over)																			

RETURN—Continued.

ADDITIONAL ARTICLES.

Carpodacus purpureus californicus Baird. California Purple Finch.

No.	Sex and age.	Page in Journal	Locality	Length	Alar expanse	Wing	Tail	Culmen	Gape	Height of bill at base.	Width of bill at base.	Tarsus.	Middle toe with its claw.	Middle claw.	Hallux with its claw.	Claw of hallux.	Date.
4508	♂ ad.	135	Fort Verde, Arizona.	160	258	84	64	12	15	10.5	8.5	19	19	5.5	13	6	Mar. 1, 1886.
4531	♂ ad.	136	" "	160	255	83	64	13	15			19	20	6			Mar. 1, 1886
4547	♂ ad.	140		154	256	82	61	12.5	14			18.5	20	6			Mar. 5, 1886
4568	♂ ad.	141		158	252	82	63	12.5	14.5			18	20	5.5			Mar. 6, 1886
4569	♂ ad.	141		154	245	82	61	13	14.5			18	18	5.5			Mar. 6, 1886
4599	♂ ad.	155		154	246	81	60	12.5	14			18	20	6			Mar. 15, 1886
4600	♂ ad.	155		158	251	81	63	12	14.5			18	21.5	7			Mar. 15, 1886
4659	♂ ad.	163		156	248	79	62	12.6	13.5			18	20	6.2			Mar. 23, 1886
4660	♂ ad.	163		159	254	81	64	12.5	14			19	21	6.5			Mar. 23, 1886
4661	♂ ad.	163		158	257	83	64	12.8	13.6			19	20	5.7			Mar. 23, 1886
4670	♂ ad.	165		159	253	83	65	13	14.5	9	8.3	17	19	6			Mar. 25, 1886
4671	♂ ad.	165		160	254	83	65	13	15			18	19	5			Mar. 25, 1886
4511	♀ ad.	136		160	254	83	61	12.5	14			19.5	21	6.5			Mar. 1, 1886
4534	♀ ad.	138		154	247	80	62	12	14			19	20.5	6			Mar. 2, 1886
4535	♀ ad.	138		150	244	79	62	12	14			18.5	20	6			Mar. 2, 1886
4536	♀ ad.	138		156	249	80	62	12.3	14.3			18	20	5.3			Mar. 2, 1886
4539	♀ ad.	138		152	250	80	61	12	14.5			18	20	5.5			Mar. 2, 1886
4555	♀ ad.	140		155	245	80	60	13.5	15			17.5	20	6			Mar. 5, 1886
4557	♀ ad.	140		161	246	80	64	14	16			18	20	6			Mar. 5, 1886
4558	♀ ad.	140		147	240	77	59	13	15			17	20	6			Mar. 5, 1886
4570	♀ ad.	141		149	237	78	58	11.5	13			17	18	5			Mar. 6, 1886
4571	♀ ad.	141		156	247	82	60	13	14.5			19	19.5	5.5			Mar. 6, 1886
4614	♀ ad.	156		155	248	79	57	12	14			19	20	6			Mar. 15, 1886
4615	♀ ad.	156		155	242	78	61	12	14.5			17.5	19	5.7			Mar. 15, 1886
4616	♀ ad.	156		154	245	80	58	11	13			18.5	20	6			Mar. 15, 1886
4638	♀ ad.	158		154	250	83	66	11.6	13.6			18.5	20	5.2			Mar. 18, 1886
4662	♀ ad.	163		156	245	78	63	11.5	13			17	19.5	6			Mar. 23, 1886
4663	♀ ad.	164		155	250	80	62	12	14			18.5	20	5.2			Mar. 23, 1886

RETURN—Continued.

ADDITIONAL ARTICLES.

Lanius ludovicianus excubitorides (Sw.) Coues. White-rumped Shrike..

No	Sex and Age	Page, in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Bill, measured from nostril	Gape	Tarsus	Middle toe and claw	Claw alone	Remarks.
2743	ad	65	Fort Verde, Arizona	April 15 1884	231	324	100	106	16.5		25	27	24	7	Irides, hazel. Bill and feet, black.
2776	♂ ad	70	Whipple Barracks, Arizona	April 23 1884	234	332	99	107	17		24	28.5	24	7	Irides, hazel. Bill, legs, feet and claws, black.
2785	♂ ad	71	Agua Fria at Staebbing's, A. T.	April 25 1884	238	328	99	107	17		26	27	23.5	7	
2808	♂ ad	74	Fort Verde, Arizona	April 29 1884	232	335	102	108	17		23.5	27.5	26	8	
2809	♂ ad	74	Fort Verde, Arizona	April 29 1884	223	322	98.5	102	17.5		26	28	25	7	
2819	ad	75	Fort Verde, Arizona	May 1 1884	233	327	98	104	18.5		26	27	25	8	
3020	♀ ad	111	Fort Verde, Arizona	June 16 1884	225	319	97	102	16		24	27.5	23.5	8	See Journal for description.
3103	♀ juv.	138	Fort Verde, Arizona	July 14 1884	239	333	102	110	18		25	28	24	8	See Journal for description.
3104	♀ juv.	138	Fort Verde, Arizona	July 14 1884	226	320	95	107	17		25	28	24	8	See Journal for description.
3105	♀ juv.	138	Fort Verde, Arizona	July 14 1884	226	310	99	107	16.5		24	27	24	8	See Journal for description.
3106	♂ juv.	138	Fort Verde, Arizona	July 14 1884	230	323	99	107	17		25	28	24	9	See Journal for description.
3582	♂ ad	255	Williamson's Valley, Arizona	Nov. 23 1884	?	?	?	?	?						See Journal.
3587	♀ ad	235	Whipple Barracks, Arizona	Nov. 25 1884	235	312	98	107	16		25	28	25	7.5	
3602	♀ ad	239	Fort Verde, Arizona	Nov. 29 1884	233	324	98	108	17		25	28	24	8	See Journal.
3678	ad	276	Fort Verde, Arizona	Jan. 3 1885	235	330	103	112	18		25	28	24	7	
3741	♀ ad	279	Fort Verde, Arizona	Jan. 8 1885	235	323	101	107	16	12	25	29	24	7.5	See Journal.
3815	♀ ad	334	Fort Verde, Arizona	March 7 1885	234	327	103	109	17	12.5	25	27	25	7	

Tab. IV.
RETURN Continued.

ADDITIONAL ARTICLES:

Measurements of Carpodynchus curvirostris palmeri

No.	Sex and age	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen from base	Culmen from nostril	Gape	Tarsus	Middle toe and claw	Its claw alone
3849.	♂ ad.	Near Hall's Rancho, New River, Arizona	Mar. 28 1885	289	359	116	131	30	22	35	34	32	8
3850.	♂	" " " " " "	Mar. 28 1885	296	360	104	126	31	25	38	32	32	8
3851.	♂	" " " " " "	Mar. 28 1885	294	365	111	120	34	26.5	38	36	36	9
3852.	♂	Desert Station, Arizona	Mar. 28 1885	295	345	110	125	32	25	37	32	32	9
4045.	♂	New River, Arizona	May 15 1885	290	360	109	122	32	25	37	36	35	10
4046.	♂	Desert Station, Arizona	May 15 1885	295	368	112	130	31	25	36	35	35	9
3862.	♀ ad.	Maricopa, Arizona	April 1 1885	300	355	115	129	33	26	39	34	33	9
3877.	♀	Red Rock, Arizona	April 3 1885	350	348	108	121	33.5	25	38	33.5	32	9
Average of six males				293	360	110	126	31.6	24.7	36.8	34.1	33.6	8.8
Maximum				296	368	116	131	34	26.5	38	36	36	10
Minimum				289	345	104	120	30	22	35	32	32	8
Average of two females				290	352	112	125	33.2	25.5	38.5	33.7	32.5	9
Maximum				300	355	115	129	33.5	26	39	34	33	9
Minimum				280	348	108	121	33	25	38	33.5	32	9

Tab. V.
RETURN — Continued.

ADDITIONAL ARTICLES.

Measurements of *Barrothynchus cinereus bendirei*

No.	Sex and age	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen from base	Culmen from nostril	Gape	Tarsus	Middle toe and claw	Its claw alone
3861.	♂ ad.	Maricopa, Arizona	April 1	185	269	348	109	127	26	20	31	34	32 8
3863.	♂ "	Sweet Water, "	April 1	185	257	325	99	116	25	19	30	34	30 8
3868.	♂ "	Casa Grande, "	April 2	185	260	328	101	116	26.5	20.5	31	33	31 8
3878.	♂ "	Near Red Rock, "	April 3	185	271	348	112	124	25	19.5	31.5	34	33 9
4002.	♂ "	Picacho Station, "	May 9	185	272	359	108	124	25	19	30	36	30 7
3884.	♀ ad.	Near Killito Station, "	April 4	185	260	330	101	123	26	19	30	33	31 8
Average of five males					266	342	106	121	25.5	19.6	30.7	34	31.2 8
Maximum "					272	359	112	127	26.5	20.5	31.5	36	33 9
Minimum "					257	325	99	116	25	19	30	33	30 7

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Sex and Age	Locality	Date	Length	Wing	Tail	Culmen	Gape	Maxilla	Middle toe	Unseen	Remarks
		<i>Pipilo aberti</i> Baird. <i>Liberti's Towhee.</i>										
2693	♂ ad. 59	Fort Verde, Arizona.	April 5 1884	236	296	92	119	16	17.5	30	28	9
2692	♂ ad. 60	Fort Verde, Arizona	April 2 1884	237	302	90.5	116.5	17	18	31	29	9
2713	ad. 62	Fort Verde, Arizona	April 10 1884	236	286	87	119	15	17	29	27.3	9
2746	♂ ad. 64	Fort Verde, Arizona	April 15 1884	233	284	88	115	15.5	16.5	28	26	8
2862	♂ ad. 51	Fort Mojave, Arizona	May 12 1884	228	289	87	112	16.5	17	29	28	9
2947	♂ ad. 44	Fort Verde, Arizona	May 29 1884	225	280	86	113	16.5	17	28	27	9
2970	ad. 50	Fort Verde, Arizona	June 4 1884	230	293	93	114	17	18	29	28	9
3062	♂ ad. 122	Fort Verde, Arizona	June 22 1884	235	284	85	116	16	17.5	29	26.5	9
3147	♀ juv. 146	Fort Verde, Arizona	July 21 1884	239	298	91	116	17	17	30	28	9.5
3173	♂ juv. 151	Fort Verde, Arizona	July 29 1884	235	285	89	120	16	17	29	27	9
3308	♀ juv. 199	Fort Verde, Arizona	Sept. 11 1884	234	280							
3432	♂ ad.	San Carlos Indian Agency, A.T.	Oct. 12 1884	231	284	86	118	16	16	30	27	9
3653	♂ ad. 268	Fort Verde, Arizona	Dec. 22 1884	238	291	90	117	15	15.5	29	28	9
3659	♂ ad. 269	Fort Verde, Arizona	Dec. 25 1884	233	289	92	117	16	16	29	27.5	9.5

See Journal.

See Journal.

See Journal.

See Journal.

RETURN—Continued.

ADDITIONAL ARTICLES.

Calamospiza melanocorys (Townsend) Stejneger. *Dark Bunting.*

No.	Sex and Age	Page in journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Gape	Tarsus	Middle toe and claw	Claw alone	Hallux with its claw	Claw of hallux	Remarks
2750	♂ ad	66	Fort Verde, Arizona	April 17 1884	175	302	89	73	14	15.4	26	24	6			For description see Journal.
2751	♀ ad	67	Fort Verde, Arizona	April 17 1884	168	276	92	66	14	15	22	23	6.5			Irides, hazel. Bill dusky brownish, line on maxilla. Mandibles, pale blue. Tarsus brown, feet and claws, brownish.
3272	♂ ad	185	Fort Verde, Arizona	Sept. 1 1884	175	283	87	73	14	15.5	23	21.5	6			For colors of parts see Journal.
3273	♂ ad	185	Fort Verde, Arizona	Sept. 1 1884	175	287	87	71	14	15	25	21.5	5.5			See Journal.
3439	♂ ad		San Carlos, Indian Agency, A.T.	Oct. 19 1884	185	297	91	78	15	15	20	24	6.5			
3440	♂ ad		San Carlos, Indian Agency, A.T.	Oct. 19 1884	187	297	90	78	15.5	15.5	28	25	7			
3441	♂ ad		San Carlos, Indian Agency, A.T.	Oct. 19 1884	188	300	93	80	14.5	15	20	24	6.5			
3461	♂ ad		Bet. the Wild Rye and Pine Creek, A.T.	Oct. 24 1884	175	292	87	72	14.5	14.5	25	23	6.5			
3682	♂ ad	277	Fort Verde, Arizona	Jan. 3 1885	178	287	90	74	14	15	24	22	5			
3683	♀ ad	277	Fort Verde, Arizona	Jan. 3 1885	176	278	85	72	13	13	24	21	5			
3749	♂ ad	323	Fort Verde, Arizona	Feb. 5 1885	175	305	92	78	15	15	27	25	6.5			
3750	♂ ad	323	Fort Verde, Arizona	Feb. 5 1885	175	292	90	76	14	15	26	23	7			
3751	♀ ad	324	Fort Verde, Arizona	Feb. 5 1885	170	270	82	68	14.5	15.5	25	22	5.5			
3752	♂ ad	324	Fort Verde, Arizona	Feb. 5 1885	180	282	92	73	15.5	16	25	23	6			
3848	♂ ad	3	Desert Station Arizona	Mar. 28 1885	183	292	88	72	14	14	25	24	6			
3923	♂ ad	6	Lebar, New Mexico	Apr. 16 1885	185	294	93	74	14.5	16	25	24	7			
3932	♂ ad	6	Gage, New Mexico	Apr. 17 1885	180	295	89	72	14.5	15	26	23	6			8
5281	♀ ad	226	Fort Verde, Arizona	May 3 1887	180	285	89	72	13	14	24.5	25	5.8			
5283	♂ ad	226	Fort Verde, Arizona	May 3 1887	175	290	88	75	15	16	24	22	6.5	17		8
5284	♂ ad	226	Fort Verde, Arizona	May 3 1887	188	292	89	74	15	15.5	25	23.5	6			

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ADDITIONAL ARTICLES.

Guiraca caerulea (Sinn.) Swains.

Blue Grosbeak

No.	Sex and Age	Page in Journal	Locality	Date	Length	Wing	Alar expanse	Tail	Culmen	Gape	Tarsus	Middle toe and claw	Claw alone	Height of bill	Length of bill	Nostril	Tip of bill to center of pupil	Tip of bill to occiput	Base of bill to occiput	Height of bill to occiput	Height of bill to ear	Claw	Claw of hallux
2863	♂ ad 81		Fort Mojave Arizona	Mar 13 1884	184	290	91	78	16	17	20	25	7										
2864	♂ ad 81		Fort Mojave Arizona	May 13 1884	180	280	89	76	16	16.5	21	24	6.5										
2887	♂ ad 23		Fort Verde Arizona	May 21 1884	188	298	92	80	17	19	22	24.5	7										
2906	♂ ad 46		Fort Verde Arizona	May 30 1884	188	295	91	77	18	18	20	24	7.5										
2980	♂ ad 52		Fort Verde Arizona	June 5 1884	176	290	88	71	17	18.2	20	22.5	7										
2991	♀ ad 102		Fort Verde Arizona	June 10 1884	177	279	85	72	17	18.5	22	23.5	7										
3003	♀ ad 104		Fort Verde Arizona	June 11 1884	180	275	83	70	16	17	21	22	7										
3012	♂ ad 107		Fort Verde Arizona	June 13 1884	183	288	90	73	17.5	18	20	22	7										
3029	♂ ad 114		Fort Verde Arizona	June 17 1884	188	290	89	78	16	17.5	21	24	7										
3030	♀ ad 114		Fort Verde Arizona	June 17 1884	174	274	83	71	15	18	20	22.5	6.5										
3038	♂ ad 117		Fort Verde Arizona	June 19 1884	181	282	89	74	16	18.5	20.5	24	7										
3060	♂ ad 121		Fort Verde Arizona	June 21 1884	181	285	89	74	16	17	21	22	6.5										
3078	♀ ad 130		Fort Verde Arizona	July 5 1884	180	280	88	73	17	18	22	23	7										
3158	♂ juv 149		Fort Verde Arizona	July 26 1884	177	275	86	71	17	18.5	21.5	23.5	6										
3186	♂ ad 160		Fort Verde Arizona	Aug 8 1884	186	288	90	76	17	17.5	22	22	7										
3240	♂ juv 179		Fort Verde Arizona	Aug 24 1884	176	278	86	72	16.5	17.5	19	22	6.5										
4056	♀ ad 347		Fort Verde Arizona	June 6 1885	181	282	89	72	18	19	21	22	6										
4089	♂ ad 348		Fort Verde Arizona	June 12 1885	189	297	94	81	17	17.5	21	23	6										
4155	♂ ad 415		Fort Verde, Arizona	Aug. 6 1885	190	297	92	75	17	18.5	21	22	7										
4156	♂ ad 415		Fort Verde, Arizona	Aug. 6 1885	186	297	92	76	18	18	23	24	6										
4856	♂ ad 232		Fort Verde, Arizona	May 21 1886	184	289	93	78	17	20	20	22.5	6										
4979	♂ ad 46		Fort Verde, Arizona	Aug. 28 1886	192	305	95	80	17	18.5	22	23	5.8										
4998	♀ ad 56		Fort Verde, Arizona	Sep. 6 1886	177	270	85	70	17	17.5	21.3	24	7.5										
5308	♂ ad 231		Fort Verde, Arizona	May 6 1887	189	298	96	75	17	18.5	22	23	6										

Irides hazel. bill with maxilla blackish; mandible bluish horn color. legs, feet and claws very dark brown.

Irides hazel. bill with maxilla blackish; mandible bluish. legs, feet and claws black.

Irides hazel. bill with maxilla blackish; mandible pale bluish. legs, feet and claws very dark brown.

Irides dark hazel. bill with maxilla olive-brown; mandible horn color laterally at base; whole of mandible horn color. legs, feet and claws brown.

Irides dark brown. bill with maxilla blue black. mandible bluish horn color. legs, feet and claws purplish brownish black.

Irides hazel. bill with maxilla brownish black. mandible bluish horn color. legs, feet and claws brownish black.

Irides hazel. bill olivaceous brown. tarsi & feet plumbeous; claws dusky brown. 1st plumage.

Irides hazel. bill purplish slate color. pinkish purple on mandible. Tarsi & feet plumbeous brown; claws brownish flesh color.

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ADDITIONAL ARTICLES

No.	Sex and Age	Page in Journal	Locality	Date	Length	Wing	Tail	Culmen	Gape	Max. cul.	Min. cul.	Tarsus	Middle toe	Claw	Notes
<i>Carbo. n</i>															

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ADDITIONAL ARTICLES.

Gymnocitta cyanocephala Max. Maximilian's Nutteracker; Pinon Jay.

No.	Sex and Age	Page in Journal	Locality	Date	Length	Max. extent of wing	Wing	Tail	Culmen	Gape	Tarsus	Middle toe and claw	Claw alone	Remarks.
3338	♂ ad	209	Fort Verde, Arizona	Sept. 23 1884	298	470	149	112	34	38	40	34.5	10	Irides, hazel. Bill, tarsi, feet and claws, black.
3339	♀ ad	209	Fort Verde, Arizona	Sept. 23 1884	284	450	145	113	35	37	38	38.5	8.5	Colors the same as above.
3407	♂ ad		Fort Apache, Arizona	Oct. 13 1884	301	486	154	120	37	40	39	34	10.5	Irides, hazel. Bill, tarsi, feet and claws, black.
3408	♀ ad		Fort Apache, Arizona	Oct. 13 1884	281	462	143	112	34	37	37	30	9	Colors as above. Crop filled with acorns of juniper oak.
3583	♀ ad	233	Granite Mountain, Arizona	Nov. 24 1884	285	470	145	111	34	38	40	32	9	
3584	♀ ad	234	Granite Mountain, Arizona	Nov. 24 1884	274	460	142	107	32	34.5	39	28	9	
3585	♀ ad	234	Granite Mountain, Arizona	Nov. 24 1884	285	460	146	113	34	38	38	30	10	
3586	♀ ad	234	Granite Mountain, Arizona	Nov. 24 1884	277	452	144	112	33	37	39	29	9	
3712	♀ ad	312	Oak Creek, Arizona	Jan. 15 1885	277	465	150	111	31	33	39	32	9	Bill, measured from nostril, 20. Irides, hazel. Bill, tarsi, feet and claws, black.

RETURN—Continued.

ADDITIONAL ARTICLES.

Agelaius phoeniceus.

Red-winged Blackbird.

			Length.	Wing.	Tail	Culmen	Gape	Tibia	Tarsus	Middle toe with its claw.	Middle claw	Hind toe with its claw	Hind claw.
5828	♂ juv	Irides hazel. Bill, legs feet and claws black.	246	404	132	103	21	22	47	32	29	8.5	24 11
5829	♂ juv.	do	241	402	130	100	21.5	21.5	44	31	30	8.5	24 11
5830	♂ juv.	do	239	400	127	97	21	22	45	30	32	11	25 12
5831	♂ juv.	do	236	395	129	97	20	20.5	42	30	28.5	9	22 10
5832	♂ juv.	do	234	385	122	96	21	22	44	31.5	30	9	24 11
5833	♂ juv.	do	229	387	126	93	21	21.5	41.5	30	29	10	24 11.3
5834	♂ juv.	do	240	402	130	98	20.5	21	44	33	31	8.5	24 10
5835	♂ juv.	do	237	395	130	95	22	22	44	30	30	9.5	24 10.5
5836	♂ juv.	do	234	387	127	97	20.5	20	43	29	29	9	23 10.7
5900	♂ juv.		235	382	125	95	21	22	42	31	30	9.3	22.5 11
5901	♂ juv.		240	403	129	96	23	22.5	43.5	31.5	31.5	9	23 11
5902	♂ juv.		230	391	129	97	21	21	42	29	29	9	21.5 11
5903	♂ ad.		245	398	131	104	22	22	41	30	30	9.3	21.5 11

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ADDITIONAL ARTICLES.

<p><i>Agelaius phoeniceus</i> (Linn.) Vieill. Red-and-buff-shouldered Blackbird.</p>											
No.	Sex and Age	Page in Journal.	Locality	Date	Length	Wing	Tail	Culmen	Gape	Tarsus	Middle toe and claw
3554	♂ ad	248	Bupai Indian Village, Cataract Cr., A.T.	Nov. 12 1884	9.7	16.5					
3743	♂ ad	323	Fort Verde, Arizona	Feb. 5 1885	350	408	134	110	23	22	30
3744	♂ juv.	323	Fort Verde, Arizona	Feb. 5 1885	334	393	125	95	22.5	22.5	32
3745	♀ ad	323	Fort Verde, Arizona	Feb. 5 1885	201	332	108	81	18	18.5	25
3746	♀ ad	323	Fort Verde, Arizona	Feb. 5 1885	204	337	108	83	19	19	26
3747	♀ ad	323	Fort Verde, Arizona	Feb. 5 1885	212	342	112	90	20.5	21	27.5
3762	♀ ad	326	Fort Verde, Arizona	Feb. 17 1885	212	350	112	90	20	20	27
3763	♀ ad	326	Fort Verde, Arizona	Feb. 17 1885	198	327	108	78	18	19	27
3764	♀ ad	326	Fort Verde, Arizona	Feb. 17 1885	202	336	105	84	20	20	26
3781	♀ ad	329	Fort Verde, Arizona	Feb. 25 1885	198	329	104	78	20	20	26.5
3782	♀ ad	329	Fort Verde, Arizona	Feb. 25 1885	191	331	106	80	19.5	19	26
3783	♀ ad	329	Fort Verde, Arizona	Feb. 25 1885	198	339	106	83	18	18	27
3784	♀ ad	329	Fort Verde, Arizona	Feb. 25 1885	195	330	108	81	18	17.5	26
3785	♀ ad	329	Fort Verde, Arizona	Feb. 25 1885	206	349	116	90	19.5	19	26.5
3807	♀ ad	333	Fort Verde, Arizona	Mar. 5 1885	211	342	109	83	19	20	29
3808	♀ ad	333	Fort Verde, Arizona	Mar. 5 1885	208	335	105	85	20	20	27

For description see Journal.

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ADDITIONAL ARTICLES.

Petrus maculatus Swain. *Wooda Crice.*

75.	Sex and Age	Page in Journal	Localities	Date	Length	Alar expanse	Wing	Tail	Carpometacarpus	Gape	Tarsus	Middle toe and claw	Claw alone	Nostril	Tibia	Hallux with its claw	Claw of hallux	Remarks
2817	♂ ad	75	Fort Verde, Arizona	May 1 1884	210	285	87	96	18	21	24	22	6					
2905	♂ ad	26	Fort Verde, Arizona	May 23 1884	217	280	90	100	20.5	21	23	22	6.3					
2956	♀ ad	26	Fort Verde, Arizona	May 23 1884	197	259	78	89	17	19	22	21.5	6	This and the above were a mated pair; female contained an egg nearly ready for extrusion.				
2912	♂ ad	27	Fort Verde, Arizona	May 23 1884	216	289	99	102	21.5	22	23	22	7					
3034	♂ ad	117	Fort Verde, Arizona	June 18 1884	209	280	88	95	20.5	21	22	21	6					
3074	♂ ad	128	Fort Verde, Arizona	July 2 1884	217	285	91	102	21.5	23	23	22	7	See Journal for colors of parts.				
3133	♂ ad	143	Fort Verde, Arizona	July 18 1884	211	279	88	95	21	23	23	21.5	6.5	See Journal for colors of parts.				
3144	♂ ad	147	Fort Verde, Arizona	July 21 1884	210	280	89	97	19.5	22.5	23	22	6.5	See Journal for colors of parts.				
3295	♀ ad	194	Fort Verde, Arizona	Sep. 8 1884	206	270	85	92	20	22	24	21	6.5					
3296	♂ juv	194	Fort Verde, Arizona	Sep. 8 1884	203	270												
3993	♂ juv	10	Pillito Station, Arizona	May 7 1885	200	270	86	88	21	23	21	21	6					
4171	♀ juv	424	Fort Verde, Arizona	Aug. 24 1885	185	255	82	79	15	19	21.5	20.5	6					
4737	♂ ad	195	Fort Verde, Arizona	Apr. 18 1886	217	284	90	102	20.3	23	22.5	22.5	6.5	15				
4814	♂ ad	208	Fort Verde, Arizona	Apr. 29 1886	206	281	92	96	19.5	21.5	22	21	6					
4815	♂ ad	208	Fort Verde, Arizona	Apr. 29 1886	204	275	88	91	21	22	23	22	6					
4818	♂ juv	208	Fort Verde, Arizona	May 1 1886	199	272	88	88	19	22	22	22	6.5					
4970	♀ ad	43	Fort Verde, Arizona	Aug 26 1886	molting													
5211	♂ ad	192	Fort Verde, Arizona	Apr. 5 1887	211	283	92	94	20	22	21	23	6.7					
5215	♂ ad	193	Fort Verde, Arizona	Apr. 8 1887	211	282	90	95	20	22	22	21	6					
5291	♂ ad	226	Fort Verde, Arizona	May 3 1887	215	290	93	100	20	22	23	22	5.5					
5367	♂ ad	246	Fort Verde, Arizona	May 13 1887	212	284	93	96	20	23.5	22	22	6	14.5				
5643	♂ ad	358	Fort Verde, Arizona	Aug 25 1887	212	282	90	97	20	22	22	21	5.8	14	31	16.5	7	

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ADDITIONAL ARTICLES.

Icterus bullocki (Swains.) Bp. Bullock's Oriole.

No.	Sex and Age	Page in Journal	Locality	Date	Length	Wing	Tail	Culmen	Gape	Tarsus	Middle toe and claw	Claw alone	Remarks.	
2818	♀ ad	75	Fort Verde, Arizona	May 1 1884	197	305	98	86	18	20	24.5	22.5	6.5	Irides, dark hazel; Bill, with maxilla blue-black; mandible, blue. Legs and feet bluish gray; Claws dusky.
2840	♂ ad	78	Fort Verde, Arizona	May 5 1884	198	312	100	83	18	20.5	24.5	22.5	7	
2865	♂ ad	81	Fort Mojave, Arizona	May 13 1884	205	313	103	88	18	20	24	22	7	Irides, hazel; Bill, with maxilla black, mandible blue, shading into dusky at tip. Legs and feet, dark bluish-gray; Claws, dusky brownish. For colors of parts, see description in Journal.
2894	♂ ad	35	Fort Verde, Arizona	May 22 1884	204	313	98	83	20	21	24	24	7	
2895	♀ ad	35	Fort Verde, Arizona	May 22 1884	210	315	100	87	19.5	21	25	24	7	
2908	♂ ad	26	Fort Verde, Arizona	May 23 1884	209	317	100	85	20	21	24	23	6.5	
2909	♂ ad	26	Fort Verde, Arizona	May 23 1884	210	320	102	86	21	22	24.5	24	7	
2910	♂ ad	26	Fort Verde, Arizona	May 23 1884	205	318	100	85	19	21	24	23	7	
2911	♂ ad	26	Fort Verde, Arizona	May 23 1884	205	316	100	87	20	20.5	24	24	7	
2942	♂ ad	41	Fort Verde, Arizona	May 28 1884	205	320	108	80	18.5	20	25	24	7	
2963	♀ ad	50	Fort Verde, Arizona	June 3 1884	198	310	95	79	17.5	20	24	22	6.5	Black markings of tail rather obsolete. In 1st plumage, still attended by its parents, and accompanied by its fellow nestlings. See Journal for colors of parts.
3022	♂ ad	112	Fort Verde, Arizona	June 16 1884	196	322	104	76	20	21.5	23	22.5	6	
3073	♂ juv.	127	Fort Verde, Arizona	July 1 1884	200	315	93	85	17	18.5	25.5	23	6.5	
4087	♂ juv.	347	Fort Verde, Arizona	June 6 1885	200	317	100	88	19.5	20.5	25	23	6	
4807	♀ ad	208	Fort Verde, Arizona	Apr. 29 1886	210	313	100	88	18	20	24	23	7	
4811	♂ ad	208	Fort Verde, Arizona	Apr. 29 1886	204	317	102	85	19	21	24.5	23	7	
4812	♂ ad	208	Fort Verde, Arizona	Apr. 29 1886	204	315	102	84	19.4	21	23	23	8	
4813	♂ ad	208	Fort Verde, Arizona	Apr. 29 1886	198	324	103	84	19	20.5	26	23	6.5	
4833	♂ ad	219	Fort Verde, Arizona	May 13 1886	205	325	103	86	20	23	25.5	25	7.5	
4869	♂ ad	224	Fort Verde, Arizona	May 26 1886	208	315	102	87	18	19.5	23	22	6.7	
4870	♀ ad	224	Fort Verde, Arizona	May 26 1886	204	303	95	81	17	19	22	23	6.8	

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ADDITIONAL ARTICLES.

Peterus parisorum Bonap. Scott's Oriole.

No.	Sex and Age	Length	Wing	Tail	Culmen	Gape	Tarsus	Middle toe and claw	Circum. of bill	Remarks.			
2816	♂ ad 75	Fort Verde, Arizona	May 1 1884	217	332	102	94	21.5	24	25	25	7.5	
2857	♀ ad 80	Whipple Barracks, Arizona	May 10 1884	214	310	98	98	22	23	23.5	24	7	
2880	♂ ad 23	Indian on Oak Creek, Arizona	May 14 1884	223	324	108	99	22	23	27	25	8	
3084	♂ ad 131	Mogollon Mts. 12 m. E. of Ft. Verde, A.T.	July 10 1884	222	328	101	94	27	25.5	25	25	7	For colors of parts, see Journal.
3085	♂ juv 131	Mogollon Mts. 12 m. E. of Ft. Verde, A.T.	July 10 1884	207	320	101	91	21.5	23	24	24	8	For colors of parts, see Journal. In 1st plumage.
3086	♀ juv 131	Mogollon Mts. 12 m. E. of Ft. Verde, A.T.	July 10 1884	210	317	97	86	21	22	25.5	25	7	This and the two above, belong to one family. In 1st plumage.
3896	♂ ad 4	Near Fort Lowell, Arizona	Apr. 7 1885	222	340	108	95	23	25	24	26	7	16
3915	♂ ad 6	San Simon Valley, Arizona	Apr. 14 1885	215	333	111	96	24	24	25	26	8	16
3962	♀ ad 8	Chiricahua Mts., ^{near Boyce Station} Arizona	Apr. 30 1885	208	300	93	83	22	22	25	25	7.5	
3984	♀ ad 10	Near Fort Lowell, Arizona	May 5 1885	204	314	97	86	21	22	23	24	7	
4894	♀ ad 4	Oak Creek, Arizona	June 10 1886	212	310	98	88	25	26	24	25	7	

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ADDITIONAL ARTICLES.

Cyanocitta stelleri macroleuca (Baird) Ridgw. Long-crested Jay.

No.	Sex and Age	Page in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Gape	Tarsus	Middle toe and claw	Below alone	Remarks.
2767	♀ ad	69	Whipple Baracks, Arizona	April 21 1884	303	450	137	130	28	34	45	32	9	Bill, feet and claws, black.
2780	♂ ad	70	Agua Fria, Arizona	April 25 1884	348	475	146	149	30	34	45	32	9	
2781	♂ ad	71	Agua Fria, Arizona	April 25 1884	326	480	155	148	31	32.7	46	33	10	
3719	♀ ad	313	Oak Creek, Arizona	Jan. 16 1885	307	445	141	138	28	32	43	32	8	Bill, measured from nostril, 19.5.
3725	♀ ad	314	Indian Gardens, Oak Creek, A.T.	Jan. 17 1885	312	465	150	144	29	32	44	32	9	See Journal for description. Bill, measured from nostril, 20.
*3381	♀ ad		Near Lake Tanks, Arizona	Oct. 6 1884	302	458	143	133	28	32.5	43	32	9.5	
3382	♂ ad		Near Lake Tanks, Arizona	Oct. 6 1884	310	475	143	143	28	33	45	35	11	

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ADDITIONAL ARTICLES.

Ceryle alcyon (Linn.) Boic. Belted Kingfisher.

No.	Sex and Age.	Page in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Gape	Height of bill at front of feathers	Tarsus	Middle toe and claw	Claw alone	Base part of tibia	Remarks
3280	♂ ad	188	Fort Verde, Arizona	Sept. 3 1884	345	575	163	103	61	75		13	23	9		Sides hazel.
3318	♀ ad	203	Fort Verde, Arizona	Sept. 14 1884	362	570	162	105	58	70.5		12	23	9	9	
3336	♂ ad	209	Fort Verde, Arizona	Sept. 21 1884	337	568	156	102	58	71		12	24	9	12	For description see Journal.
3343	♀ ad	210	Fort Verde, Arizona	Sept. 23 1884	347	593	175	107	59	74		14	25	9	11	
3344		210	Fort Verde, Arizona	Sept. 23 1884	337	560	162	103	60	75		12	25	10	9	
3345	♂	210	Fort Verde, Arizona	Sept. 23 1884	340	565	162	103	59	72		11.5	23.5	9	10	
3346		210	Fort Verde, Arizona	Sept. 23 1884	336	579	166	102	56	72		13	25	9	11	
3609	♂	242	Fort Verde, Arizona	Dec. 4 1884	321	550	160	97	50	67		12	24	8.5	9	
3778	♂ ad	328	Fort Verde, Arizona	Feb. 21 1885	333	562	164	98	58	71	15	11.5	23	9	9.5	Length of bill from nostril, 45. Breadth of bill at gape, 21.

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Sex and Age.	Page in Journal	Pyrocephalus rubinus mexicanus (Sch.) Coues.					Vermilion Flycatcher.							Remarks
			Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Tarsus	Middle toe and claw	Below about	
2700	♂ ad	60	Fort Verde, Arizona	April 7 1884	156	268	82	65	13.7	9.2	18	16.2	14	4.7	Irides, hazel. Bill, legs, feet and claws black; lower mandible showing a tinge of brown in the middle at base. Mated with no. 2700. Irides hazel. Bill, legs, feet and claws, black.
2701	♀ ad	60	Fort Verde, Arizona	April 7 1884	152	263	79.5	63.5	14	9.8	19.5	16.2	15.5	5	
2702	♂ ad	60	Fort Verde, Arizona	April 7 1884	154	261	80	65	15	10	19.2	16.5	15	5	Irides, hazel. Bill, legs, feet and claws, black. Mated with no. 2702. Irides hazel. Bill, legs, feet and claws, black.
2703	♀ ad	60	Fort Verde, Arizona	April 7 1884	152	260	80	63	14	9	18.3	17	15	5	
2730	♂ ad	64	Fort Verde, Arizona	April 12 1884	150	255	79	65		9	18	16	14	5	
2731	♂ ad	64	Fort Verde, Arizona	April 12 1884	153	260	79	63	14	9.5	19	16	15	5	
2806	♂ ad	73	Fort Verde, Arizona	April 29 1884	151	267									
3016	♀ ad	111	Fort Verde, Arizona	June 16 1884	152	255	82	65	14	9.6	18.5	16.5	14	4	Irides, hazel. Bill, legs, feet and claws, brownish black. Parent of Set. No. 2-1. See Journal.
3153	♂ ad	148	Fort Verde, Arizona	July 23 1884	148	252	71	61	14	9.5	18	16	15	5.5	
3164	♀ ad	150	Fort Verde, Arizona	July 27 1884	151	256	79	62	14.5	10	18	17	15.5	5	Irides, hazel. Bill, tarsus and feet, brownish black; claws, black.
3165	♀ ad	150	Fort Verde, Arizona	July 27 1884	150	260	79	64	14.5	10	18	16	15	5.5	Colors of parts like no. 3164.
3193	♂ ad	164	Fort Verde, Arizona	Aug. 13 1884	155	263	80	63	14	9	18	17	16	6	See Journal for colors of parts.
3194	♂ juv.	165	Fort Verde, Arizona	Aug. 13 1884	155	261	79	62	14	9	18	17	15	5	See Journal for colors of parts.
3281	♂ juv.	189	Fort Verde, Arizona	Sept. 4 1884	150	250									For description see Journal.
3455	♂ ad.		Salt River, Arizona	Oct. 21 1884	153	262	82	64	15	9.5	19	17.5	15	5.3	

Asyndesmus torquatus (Wilson) Bowles. Lewis's Woodpecker

No.	Sex and Age.	Locality	Date	Remarks.	Length.	Alar expanse.	Wing.	Tail.	Culmen.	Gape.	Tarsus.	Middle toe (incl. claw).	Its claw alone.
3364.	♂ ad.	Mud Tanks, Arizona Territory.	Oct. 3, 1884	Skinned for Capt. Roberts.	—	—	—	—	—	—	—	—	—
3369.	♀ ad.	Mud Tanks, Arizona Territory.	Oct. 3, 1884	Bill, plumbeous. Irides, hazel. Black, grayish at base of mandible.	280	535	172	110	30.5	36	25	31	11.
3370.	♀ ad.	Between Mud Tanks & Bakii Butte, A. T.	Oct. 3, 1884	Tarsi and feet, plumbeous. Claws, plumbeous-black; slightly brownish at base.	282	520	167	120	27	33	24	30	11.
3390.	♂ juv.	Between Cañon Creek and Cibola Cr., A. T.	Oct. 8, 1884	do do do do do do do	275	535	167	100	27	35	25	32	11.
3391.	♂ ad.	Near Cibola Creek Arizona Territory.	Oct. 8, 1884	do do do do do do do	285	550	172	109	30	35	29	30	11.
3395.	♂ ad.	Between Cibola and Corrijo Creeks, A. T.	Oct. 9, 1884	do do do do do do do	287	527	168	104	29.5	34	28	30	11.
3396.	♀ ad.	Near Forestdale, Arizona Territory.	Oct. 10, 1884	do do do do do do do	272	520	165	112	27	33	23	27	10.
3397.	♂ ad.	Near Forestdale, Arizona Territory.	Oct. 10, 1884	do do do do do do do	280	540	175	106	29	35	26	30	11.
3400.	♂ ad.	14 miles north of Ft. Apache, Arizona.	Oct. 11, 1884	do do do do do do do	—	—	—	—	—	—	—	—	—
3401.	♂ ad.	14 miles north of Ft. Apache, Arizona.	Oct. 11, 1884	do do do do do do do	280	545	176	108	30	36	27	30	11.
3443.	♂ ad.	The Wheatfield, near Globe City, A. T.	Oct. 20, 1884	do do do do do do do	286	555	173	114	30	35.5	26	31	11.
3444.	♂ juv.	The Wheatfield north of Globe City, A. T.	Oct. 20, 1884	do do do do do do do	272	525	160	102	29	33.5	26	30	11.
3457.	♂ juv.	Lonto Creek, Arizona Territory.	Oct. 22, 1884	do do do do do do do	280	535	168	106	27	33	25	29	10.5.
3469.	♂ ad.	Mormon Settlement near Fossil Cr., A. T.	Oct. 25, 1884	do do do do do do do	292	557	169	106	30.5	37	28	31	10.5.
3470.	♂ ad.	Mormon Settlement near Fossil Creek, A. T.	Oct. 25, 1884	do do do do do do do	288	535	162	107	32	36	28	30	10.

RETURN—Continued.

Ampelis cedrorum

ADDITIONAL ARTICLES.

Cedar Waxwing.

Number	Sex and age	Date	Locality	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Tibia	Tarsus	Middle toe and claw	Middle claw	Third toe and claw	Third claw	Remarks
5692	♀ ad.	Nov. 1, 1887	Ht. Verde, Arizona	181	296	97	64	13	7	20	28	17.5	20	6.2	13	6	Irides, reddish-hazel. Bill, Tarsi, feet and claws, plumbeous-black.
5693	♀ ad.	Nov. 1, 1887	" "	180	292	96	60	11	6.5	19	28	18	19	5.5	12	6	
5694	♂ ad.	Nov. 1, 1887	" "	185	296	100	65	12	6.6	18	30	16	19	6.3	13	6	
5695	♀ ad.	Nov. 1, 1887	" "	180	291	95	59	11	6	19	27	17	19	6	13	6	
5696	♂ ad.	Nov. 1, 1887	" "	185	291	94	61	12.5	7	21	30	18	20	5.5	13	6	
5697	♀ juv.	Nov. 1, 1887	" "	187	301	96	58			30	18	20	6	13.5	6.1		
5698	♀ juv.	Nov. 1, 1887	" "	183	295	97	65	12	6.5	19	30	17	20	6	14.5	6.2	

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Sex and age Page in Journal	Locality.	Date.	Length	Alar expanse	Wing	Tarsus	Culmen	Gape	Tip of bill to center of pupil	Tip of bill to occiput	Base of cul- men to occiput	Tibia	Tarsus	Middle toe with its claw	Middle claw	Claw of hallux	Hallux with claw
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RETURN—Continued.

ADDITIONAL ARTICLES.

* toe alone, 13.

† toe alone, 13.5.

Specimens of Rhynchophanes maccownii (Lawr.)

Sex and Age	Date	Locality	Weight of bill at base.	Weight of bill at tip.	Nostril.	Length	Alar expanse	Wing	Tail	Culmen	Gape	Tip of bill to clitoris of pupil	Tip of bill to end of culmen	Base of culmen to cere.	Tibia	Tarsus	Middle toe with its claw.	Middle claw	Hallux and its claw	Claw of hallux	Page in Journal	
♂ ad.	Mar. 30 1885	Manicopa, Arizona.				10	155	290	92	60	13	14.5				21	18	5.5	9	2		
♀ ad.	Nov. 4 1886	Fort Verde, Arizona	8.5	8.5	9	157	291	93	60	12	14					20	18	5.5	17	8	90	
♂ ad.	Jan. 18 1886	Fort Verde, Arizona				155	297	95	62	11.5	13					21	17	5	15	8	105	
♂ ad.	Jan. 18 1886	Fort Verde, Arizona				162	298	96	64	12	14	17.5	30			21	19	5.5	16	8	105	
♂ ad.	Jan. 18 1886	Fort Verde, Arizona				153	286	91	57	12	13					19.5	17.5	5	16.5	9.5	105	
♀ ad.	Jan. 22 1886	Fort Verde, Arizona	8	8		148	275	96	55	10	12.5					18	16	4			112	
♂ ad.	Nov. 29 1887	Agua Fria, P.O. Arizona				153	273	90	56	11	12					28	14	18	5.3	18	10	299
♀ ad.	Nov. 29 1887	Agua Fria, P.O. Arizona				155	276	92	58	12	13					28	19	18	5	19	11	299
♀ ad.	Nov. 29 1887	Agua Fria, P.O. Arizona				149	275	90	57	11.7	13					26	19	17	5	14.5	7	299
♀ ad.	Nov. 29 1887	Agua Fria, P.O. Arizona				155	271	88	55	11.3	13					27	18.5	17	4.4	15	7	299
♂ ad.	Dec. 22 1887	Fort Verde, Arizona.				154	284	92	59	13	15	19	32	32	28	20	17	4	16	7.5		
♂ ad.	Dec. 22 1887	"				156	300	98	63	11.7	13.7	18	31	22	28	20	18	4.5	15	7		
♂ ad.	Dec. 22 1887	"				156	289	95	62	12	13.5					28	20	17.5	5	17.5	9	
♂ ad.	Dec. 22 1887	"				161	298	94	61	13	14.4	20	33	33	29	20	19	5.5	16	7.5		
♂ ad.	Dec. 22 1887	"				162	297	98	64	12.7	14					27.5	20	18	5.6	17	8.8	
♂ ad.	Dec. 22 1887	"				160	292	96	63	12.5	14.2					27	18	17	4.8	13.5	6.1	
♂ ad.	Dec. 22 1887	"				155	289	93	60	12	13.4					27	20	17	5	16	8	
♂ ad.	Dec. 22 1887	"				157	295	95	62	12.2	13.8	19	31.5	22	29	20.7	18	5	17	8.5		
♂ ad.	Dec. 22 1887	"				157	290	93	58	12	13.8					28	19.2	18	5.2	16	7.7	
♂ ad.	Dec. 22 1887	"				156	289	96	63	12	13.3					27.5	19.5	18	5.2	16	8.2	
♂ ad.	Dec. 22 1887	"				159	298	97	61	12	14					28	20.7	18.7	4.9	17	8.6	
♂ ad.	Dec. 22 1887	"				169	295	96	63	12	13.7					28	20	17.7	5.5	17	8.8	
♀ ad.	Dec. 22 1887	"				148	270	89	55	11.5	12.2					18	16.6	4.5	14	7		
♀ ad.	Dec. 22 1887	"				148	267	87	53	11.6	13					28	19	17	4.3	16	8	
♀ ad.	Dec. 22 1887	"				147	275	88	53	11.9	14	18	31	21	28	19.8	17.2	5	15.5	7.2		
♀ ad.	Dec. 22 1887	"				148	272	87	54	12.2	14	18.5	31.5	21.5	26	19	17	5.8	15	7		
♀ ad.	Dec. 22 1887	"				154	283	94	60	11.7	12.7	18	31	22	28	21	17	5	15	7.5		
♀ ad.	Dec. 22 1887	"				152	279	91	59	11.5	13	18	31	22	28	20	18	5	17	8.8		
♀ ad.	Dec. 22 1887	"				149	273	87	55	12	13					27.5	19	16.5	5	14	7	
♀ ad.	Dec. 22 1887	"				154	292	94	57	11.5	12.8					30	21	18	5	17	8	
♀ ad.	Dec. 22 1887	"				151	274	89	57	12	13.8					27	19	17	5	15.5	7.9	
♀ ad.	Dec. 22 1887	"				153	272	88	56	11.9	13					26	19	16.2	4	14	6.1	

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Sex and Age	Page in Journal	<i>Oicus scalaris</i> Nagl.	Texan Sapsucker	Length	Alar expanse	Wing	Tail	Culmen	Gape	Tarsus	Middle (third) toe and claw.	Claw alone	Tibia	Hallux with its claw	Remarks.
2680	♀ ad.	58	Fort Verde, Arizona	Mar. 27 1884	185	333	99	68	21	23	17	21	8			
2742	♂ ad.	65	Fort Verde, Arizona	April 15 1884	189	327	101	68	23	25	16.5	20	7.7			Irides, dark red.
2804	♀ ad.	73	Fort Verde, Arizona	April 29 1884	185	320	99	71	21.4	23.5	17.7	19	8			
2829	♀ ad.	76	Fort Verde, Arizona	May 2 1884	187	334	104	70	20.5	22.5	19	20	8			
2893	♂ ad.	25	Fort Verde, Arizona	May 22 1884	192	335	103	65	24.5	26.5	18.5	22	8.5			
3059	♂ ad.	121	Fort Verde, Arizona	June 21 1884	192	340	103	71	23.5	26	18.5	21	8.5			
3077	♂ juv.	129	Fort Verde, Arizona	July 7 1884	190	335	102	70	22	24	19	21	8.5			For description see Journal.
3132	♀ juv.	137	Fort Verde, Arizona	July 14 1884	179	313	94	68	19	21.5	19	20	8			Young, with first plumage well developed.
3135	♂ juv.	140	Fort Verde, Arizona	July 19 1884	186	320	95	68	20.5	22	19.5	20	7.5			In first plumage. Irides, hazel.
3340	♀ ad.	210	Fort Verde, Arizona	Sept. 23 1884	182	332	104	72	20.5	23	18.5	20	8.5			For description see Journal. In first plumage.
3605	♀ ad.	240	Fort Verde, Arizona	Dec. 3 1884	185	340	105	72	20	23	18.5	20	8			Girdle, red. Bill plumbeous-black; tarsi and feet, plumbeous; claws, black.
3623	♀ ad.	258	Fort Verde, Arizona	Dec. 10 1884	187	325	99	71	21.5	25	19	21	8			
3740	♂ ad.	320	Fort Verde, Arizona	Jan. 29 1885	198	342	106	71	24	26	19	21	9			Irides, dark red. Bill, plumbeous, darkest above, tarsi and feet, plumbeous, claws dusky.
3761	♂ ad.	327	Fort Verde, Arizona	Feb. 19 1885	192	343	108	73	24	28	19	20	8			
3772	♂ ad.	327	Fort Verde, Arizona	Feb. 19 1885	191	336	105	73	25	28	20	22	9			
3773	♀ ad.	327	Fort Verde, Arizona	Feb. 19 1885	183	330	105	70	21	23	19	20	9			Irides, red. Bill, dusky, plumbeous. Tarsi and feet greenish-plumbeous; claws dusky.
3788	♀ ad.	330	Fort Verde, Arizona	Feb. 25 1885	186	333	105	72	21.5	22.5	18	20	8			
3789	♂ ad.	330	Fort Verde, Arizona	Feb. 25 1885	191	339	107	71	23.5	26	20	21	8.5			Colors same as above.
3790	♂ ad.	330	Fort Verde, Arizona	Feb. 25 1885	191	344	108	68	25	27	20.5	20.5	8.5			Colors same as above.
3791	♂ ad.	330	Fort Verde, Arizona	Feb. 25 1885	191	339	107	72	24	26	19	20.5	8.5			Colors same as above.
3792	♂ ad.	330	Fort Verde, Arizona	Feb. 25 1885	188	342	107	69	24.5	26	20	20	8.2			Colors same as above.
4248	♂ ad.	39	Fort Verde, Arizona	Oct. 15 1885	197	347	112	75	24	26	18	20	9			
4294	♂ ad.	54	Palo Verde, Upper Verde Valley, Arizona	Nov. 18 1885	192	345	109	71	23	25.5	19	20	8			
5082	♀ ad.	119	Fort Verde, Arizona	Dec. 30 1886	188	345	107	75	20	23	18	19	7.5			
5894	♂ ad.	308	Fort Verde, Arizona	Dec. 26 1887	191	338	106	71	24	26	21	20	8	29	11	5.7
5895	♂ ad.	308	Fort Verde, Arizona	Dec. 26 1887	199	346	109	75	24	26	20	19	8	28	12	6

RETURN—Continued.

ADDITIONAL ARTICLES.

Phainopepla nitens (Sw.) Sch. Black-crested Flycatcher.

No.	Sex and age	Page in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Tarsus	Middle toe and claw	Culmen alone	Remarks.
3069	♂ ad	125	Fort Verde, Arizona	June 26 1884	204	285	90	100	12	8	18	17	18	4	
3090	♂ ad	135	Fort Verde, Arizona	July 11 1884	206	285									
3107	♀ ad	138	Fort Verde, Arizona	July 15 1884	203	283	90	98	11	7.7	17	18	18	5.5	Parent of No. 3108.
3158	♂ juv.	138	Fort Verde, Arizona	July 15 1884	175	277	85	75	10	7	17	18	18	5	In first plumage. See Journal for description.
3437	♂ ad	432	Coyote Springs, 20 m. N. of San Carlos, Ariz.	Oct. 19 1884	200	292	90	99	11.5	8	16	20	19	6	Brides red. Plumage overlaid with glaucous.
3457	♂ ad	432	Fort Verde, Arizona	Oct. 22 1884	200	295	91	99	12	7	17	20	19	5.5	Plumage with a glaucous cast.
4078	♂ ad	346	Fort Verde, Arizona	June 4 1885	205	302	97	102	12	8.5	16	19	17	6	
4861	♂ ad	223	Fort Verde, Arizona	May 21 1886	206	300	97	100	11.5	8	16	18	17.5	5.5	
4862	♂ ad	223	Fort Verde, Arizona	May 21 1886	206	300	94	99	11.6	7	16.5	18.5	18	5	
4886	♀ ad	3	Fort Verde, Arizona	June 5 1886	206	303	95	97	11.5	8	18	19.5	20	7	

RETURN—Continued.

ADDITIONAL ARTICLES.

Phainopepla nitens (Sw.) Sel. Black-crested Flycatcher.

No.	Sex and Age	Page in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Tarsus	Middle toe and claw	Claw alone	Remarks.
2861	♂ ad	81	Fort Mojave, Colorado River, A. T.	May 12 1884	208	302	92	102	12.3	8.5	17	19.5	20.3	6	Iris, red. Bill, legs, feet and claws, black.
2869	♂ juv.	82	Fort Mojave, Colorado River, A. T.	May 13 1884	195	297									Young of the year, attended by its parents.
2941	♂ ad	41	Fort Verde, Arizona	May 28 1884	204	300	95	102	12	7.5	16	17	17	5	Birds, bright red. Bill, legs, feet and claws similar to black, showing a decided tinge of brown on a strong light.
2961	♂ ad	49	Fort Verde, Arizona	June 3 1884	216	302	95	109	13	8	18	18	18.7	5	Iris, red. Bill, legs and feet black, showing (light) a shade of brown on a strong light.
2974	♀ ad	52	Fort Verde, Arizona	June 5 1884	203	296	90	94	14.5	7.5	17	20	20	6	Iris, light brownish red. Bill, legs and feet, black, with brownish tinge.
2975	♂ ad	52	Fort Verde, Arizona	June 5 1884	210	296	90	101	11.5	8.2	17	18	18	5.5	Iris, bright red. Bill, legs, feet and claws black.
2976	♂ ad	52	Fort Verde, Arizona	June 5 1884	201	290	91	97	12	8	17.3	18	18	5.5	Colors as above (2975).
2977	♂ ad	52	Fort Verde, Arizona	June 5 1884	207	300	94	104	12	8	18	18	19	6	Colors of parts, same as no. 2975.
2978	♂ ad	52	Fort Verde, Arizona	June 5 1884	201	283	87	93	12	8	17.5	18	18	5	Colors of parts, same as no. 2975.
2995	♀ ad	103	Fort Verde, Arizona	June 11 1884	209	295	92	100	14	8.2	18	19	19	5	
2996	♀ ad	103	Fort Verde, Arizona	June 11 1884	202	292	90	93	12.5	8.5	18	18	20	7	
2997	♂ ad	103	Fort Verde, Arizona	June 11 1884	205	295	92	99	11.5	8	17	19.5	18.5	5	
2998	♂ ad	103	Fort Verde, Arizona	June 11 1884	200	297	90	97	12	7.5	17	19	19	5.5	
3001	♂ ad	103	Fort Verde, Arizona	June 11 1884	200	286	88	93	11	7	16	18	19	5	
3002	♂ ad	104	Fort Verde, Arizona	June 11 1884	209	295	93	102	13	8	18	18	19	6	
3011	♂ ad	107	Fort Verde, Arizona	June 13 1884	210	300	93	102	13	8.5	18	18	20	6	Esophagus filled with "haw" service.
3017	♀ ad	111	Fort Verde, Arizona	June 16 1884	194	287	88	89	11.5	8	18	19	19	6	Parent of Set no. 3018.
3018	♀ ad	111	Fort Verde, Arizona	June 16 1884	209	297	92	100	13	8	18	18	19	5.5	For description, see journal.
3035	♂ ad	117	Fort Verde, Arizona	June 18 1884	209	298	93	101	12	8	16	19	18	5	Parents of nest and Set no. 3036.
3036	♀ ad	117	Fort Verde, Arizona	June 18 1884	192	274	83	88	12	8.5	17	18	18.5	5	
3039	♂ ad	117	Fort Verde, Arizona	June 19 1884	198	291	89	100	13	8	17	18	19	5	Parent of Set no. 3040.
3040	♀ ad	117	Fort Verde, Arizona	June 19 1884	202	286	87	96	12	8	18	17.5	19	6	Parent of Set no. 3041.
3041	♂ ad	117	Fort Verde, Arizona	June 19 1884	194	280	90	97	10	6.5	16	17	17	5.5	Parent of Set no. 3042.
3042	♀ ad	117	Fort Verde, Arizona	June 19 1884	206	298	92	101	12	9	18	19	19	5.5	Birds, light red. Bill, legs, feet and claws black, with slight brown tinge. Parent Set 3043.
3043	♂ ad	118	Fort Verde, Arizona	June 19 1884	204	288	89	100	13	8.5	18	18	18	5	Parent of Set no. 3044.
3044	♂ ad	118	Fort Verde, Arizona	June 19 1884	215	302	96	105	12	8	17.5	18.5	18.5	5	Parent of Set no. 3045.
3045	♀ juv.	118	Fort Verde, Arizona	June 19 1884	189	280	85	86	12	7.5	17	18	18.5	5.5	Young of the year. See description in journal.
3052	♂ ad	121	Fort Verde, Arizona	June 20 1884	208	292	92	100	12	8	18	18	19	6	Parent of Set no. 3053.
3053	♀ ad	121	Fort Verde, Arizona	June 20 1884	207	297	94	100	12	7.5	17.5	17.6	18.5	5	
3057	♀ ad	121	Fort Verde, Arizona	June 21 1884	194	281	90	93	11.5	8	17	18	18	5	Parent of Set no. 3058.
3058	♂ ad	121	Fort Verde, Arizona	June 31 1884	205	293	90	98	12	8	17.5	18.5	19	5.5	Parent of Set no. 3059.
3068	♀ juv.	131	Fort Verde, Arizona	June 26 1884	207	288	91	96	12	8	17.5	18	18	5	Still retains traces of juvenile plumage, probably a bird of the last year. Brides have bright red throat in the adult.

RETURN—Continued.

ADDITIONAL ARTICLES.

Olor columbianus (Ord). Whistling Swan.																															
No.	Sex and age.	Page in Journal.	Length.	Alar expanse.	Wing.	Tail.	Culmen from frontal feathers.	Bill, measured from nostril.	Gape.	Height of bill at base.	Width of bill at base.	Width of bill opposite anterior border of nostril.	From tip of bill to centre of bill.	From tip of bill to occiput.	From base of culmen to occiput.	Diameter of eye.	Length of neck, measured from cloricle to head.	From head of tibia to end of middle claw.	Tibia.	Base portion of tibia.	Length of tarsus.	Width of tarsus at inner edge.	Middle toe with its claw.	Middle claw.	Hallux with its claw.	Claw of hallux.	Inner claw.	Outer claw.	Weight, lbs, avoird.	Date.	
* 5971	♀ juv.	317	1420	2400	605	185	90	48	103	48	38	35	136	190	95	12	600	500	2 1/5	32	125	25	163	19	36	10	20	15	15	lbs.	Jan. 7, 1888.
+ 5972	♀ juv.	317	1395	2360	610	190	92	50	105	49	40	36	140	195	97	12	595	485	2 1/2	37	117	26	158	18	33	9	18	14	15	lbs.	Jan. 7, 1888.

* Tail-feathers 22.

+ Tail-feathers 20.

RETURN—Continued.

Branta canadensis minima Ridgw. ADDITIONAL ARTICLES.

[illegible]

Chenopodium (Baird) [†] Rose's Snow Goose.

5677 Pad Oct. 24, 1887 Verde River at mouth of Beaver Creek, Ariz. 547 1212 353 112 39 47 20 40 24 ^f22.5 19 59 49 84 8 235 120 15 67 53 — 7.2 18.5 ⁵2.16

* Height of bill measured opposite base of nostrils, 20.

f " " " " " " " " " 19.

♂ " " " " " " " " " " 19.
 ♀ Length of nostril, 10. Distance between nostrils, 11. Length to end of untretched claws, 870. Width of bill at anterior border of nostrils, 19.

RETURN—Continued.

Ninox cyanopectera, continued

ADDITIONAL ARTICLES.

No.	Sex and age	Page in Journal.	Locality.	Date	Length.	Alar expanse	Wing	Tail	Culmen from frontal feathers	Culmen measured from extremity of bill.	Culmen measured from nostril.	Gape.	Height of bill at extreme base	Width of bill at base.	Width of bill at widest point.	From tip of bill to center of nostril.	From tip of bill to occiput.	From base of culmen to front of feathers at base of bill.	From head of tibia to end of claws.	Tibia.	Bare portion	Tarsus	Middle toe with its claw.	Middle claw.	Hallux with claw	Claw of hallux
5455	♂ ad.	251	Hornum Lake, Mogollon Mts., central Arizona.	May 31 1887	412	660	196	88	45	36	55	19	18	70	92	47	145	65	13	34	47	8.5	13	3		
5261	♀ ad.	223	Fort Verde, Arizona.	April 27 1887	421	660	190	82	45	54	35	52	17.5	17	18	68	89	46	140	65	13	35	46	7	13.5	3.8
5262	♀ ad.	223	Fort Verde, Arizona.	April 27 1887	402	612	177	76	44	51	33	50	17.5	15.5	17	65	88	45	137	63	11	33.5	43.5	7	13	3.2

Note.—Some of the females, whose measurements are here tabulated, may be specimens of *Anas discors*. The skins should all be examined, and compared carefully: especially No. 4220.

RETURN—Continued.

ADDITIONAL ARTICLES.

Anas cyanoptera, Vieill.							Cinnamon Teal.																			
No.	Sex & Age.	Page in Journal.	Locality.	Middle claw.	Hallux with its claw.	Claw of hallux.	Date.	Length.	Alar expanse.	Wing.	Tail.	Culmen from frontal feathers.	Culmen from extreme base.	Gape.	Height of bill at extreme base.	Culmen from nostril.	Width of bill at base.	Width of bill at widest point.*	From tip of bill to centre of pupil.	From tip of bill to occiput.	From frontal feathers to occiput.	From head of tibia to end of claw.	Tibia.	From point of tibia.	Tarsus.	Middle toe with claw.
2655	♂ ad.	180	Banghart's Station, 24 m. N. of Prescott, Ariz.	7	13	3.7	Mar. 19, 1884	432	660	193	85	47	55	56	18.5	37	16.5	18	70	94	47	147	65	13	35	49
4759	♂ ad.	201	Peck's Lake, Verde Valley, Arizona	8.5	16	5	Apr. 20, 1886	432	660	195	83	48	57	59	20	36	17	18	72	98	49	148	68	11	34	47
4770	♂ ad.	202	do	9	13	4.5	Apr. 20, 1886	420	655	200	83	43	52	51	19	35	17	18						10	34	47
4772	♂ ad.	202	do	8	13	4	Apr. 20, 1886	435	680	201	86	45	54	53	19	36	17	18						12	34	46
4773	♂ ad.	202	do	8	13	4.4	Apr. 20, 1886	423	665	200	87	46	54	55	18.5	35	18	19						12	38	45
4774	♂ ad.	203	do	9	13	4.2	Apr. 20, 1886	430	630	182	86	45	55	54	18.5	36	17	18						12	33	46
4775	♂ ad.	203	do	8.5	13	4	Apr. 20, 1886	430	666	201	89	49	57	55	18.5	37	18	19						13	34	47
4776	♂ ad.	203	do	9	13	4	Apr. 20, 1886	440	665	200	87	46	54	53	18.5	36	17	18						12	35	47
5155	♂ ad.	169a	Fort Verde, Arizona.	9	15	4.6	Mar. 9, 1887	442	663	200	90	48	58	57	18.5	37	18	19	73	97	46	149	67	12	35	49
5156	♂ ad.	169a	Fort Verde, Arizona.	7.5	13	4.5	Mar. 9, 1887	430	675	198	82	47	57	57	20	37	16	18	70	95	47	147	68	14	36	48
5169	♂ ad.	175	Fort Verde, Arizona.	7	13	4	Mar. 17, 1887	435	650	187	80	48	56	58	21	37	18.4	18.4	73	97	51	143	68	13	36	47
5170	♂ ad.	175	Fort Verde, Arizona.	8	13	4	Mar. 17, 1887	405	630	195	82	43	51	51	18	33	18	19	67	88	46	140	61	10	35	46
5171	♂ ad.	176	Fort Verde, Arizona.	6.5	12.5	3.8	Mar. 17, 1887	415	634	190	87	45	55	53	18	35	18	18.5	70	90	45	128	61	10	32	42
5172	♂ ad.	176	Fort Verde, Arizona.	7.7	13.5	4	Mar. 17, 1887	415	650	197	92	44	53	55	19	34	18	18.5	70	91	45	136	62	12	34	46
5176	♂ ad.	178	Fort Verde, Arizona.	8	13	4.2	Mar. 21, 1887	425	655	196	85	45	54	54	19	35	17	18	68	90	45	139	62	10.5	34	47
5217	♂ ad.	193	Fort Verde, Arizona.	8	13	4	Apr. 8, 1887	424	655	193	82	45	54	55	18.5	35	17	18	71	93	47	140	64	11	34	44
5240	♂ ad.	210	Oak Creek, Arizona.	6.7	12.5	3.3	Apr. 16, 1887	417	630	183	80	46	54	54	19	35	17	18	69	92	45	133	61	11	32	44
4220	♀ ad.	19	Fort Verde, Arizona.	9			Sep. 17, 1885	420	660	200	86	47	56	54										14	35	48
4703	♀ ad.	174	Fort Verde, Arizona.	7	13	4	Apr. 3, 1886	408	640	190	87	41	50	50	16	33	18	20	65	85	42	133	62	12	33	45
4776	♀ ad.	203	Peck's Lake, Verde Valley, Arizona	7.5	13	4	Apr. 20, 1886	384	617	181	75	40	48	47	16	32	17	18	64					12	31	40
4777	♀ ad.	203	do	7	13	4	Apr. 20, 1886	405	630	175	82	42.5	49	50	17	32	16.5	17						11	33	44
4778	♀ ad.	203	do	8	13	4	Apr. 20, 1886	395	625	179	82	40	48	49	17	32	16	17						12	33	43.5
5159	♀ ad.	173	Fort Verde, Arizona.	8	14	4	Mar. 14, 1887	397	616	180	81	43	51	50	17.5	33	16	17	65	85	41	134	61	9	31.5	44
5160	♀ ad.	173	Fort Verde, Arizona.	7	13	3.5	Mar. 14, 1887	400	633	187	87	42	49	49	17.5	32	17	18	64	84	42	137	62	10	33	45
5173	♀ ad.	176	Fort Verde, Arizona.	7.6	13.5	4.2	Mar. 17, 1887	406	600	186	80	44	54	52	17	35	17	18	68	89	45	136	62	10	33	44
5174	♀ ad.	176	Fort Verde, Arizona.	8	15	4.8	Mar. 17, 1887	400	625	190	84	42	50	50	16	32	16	16.5	64	87	43	133	63	11	33	45
5218	♀ ad.	193	Fort Verde, Arizona.	7.5	13	3.9	Apr. 8, 1887	405	622	185	82	44	51	48	18	32	16	17	64	85	42	138	63	12	33	45
5221	♀ ad.	194	Peck's Lake, Verde Valley, Arizona	7.6	14	4	Apr. 12, 1887	402	628	182	80	44.5	52	53	18.5	34	16.5	17	66	89	43	139	66	11	33	45
5222	♀ ad.	195	do	8	12.5	3.5	Apr. 12, 1887	400	650	192	84	44	52	51	18	33	16.5	17	66	88	45	143	66	12	33	46
5223	♀ ad.	195	do	7	13.5	4	Apr. 12, 1887	401	612	177	76	41	48	49	17	31	16	17	62	83	42	134	60	10	32	42
5241	♀ ad.	211	Oak Creek, Arizona.	8	13	4.4	Apr. 16, 1887	413	636	184	86	45	53	53	17	35	17	18	68	89	44	135	61	11	34	45
5247	♀ ad.	212	Fort Verde, Arizona.	7.5	12.5	3.5	Apr. 17, 1887	378	617	181	78	43	49	50	17	32	16	17	63	86	40	139	64	10	31	44
* Diameter of eye, 8.4. Diameter of eye, 8. Limiter of eye 6.9.							* or at most expanded portion.												(over)							

* Diameter of eye, 8.4. Diameter of eye, 8. Diameter of eye, 6.9.

* or at most expanded portion.

(OVER)

RETURN—Continued.

ADDITIONAL ARTICLES.

Bubo virginianus, subarcticus (Hooy) Ridgw. Western Horned Owl

No.	Sex and Age	Page in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen and cere	Cere	Culmen	Gape	Tarsus	Middle toe and claw	Hind claw	Inner claw	Middle claw	Outer claw	Tibia	Diameter of eye	Distance between eyes	Tip of bill to center of pupil	Tip of bill to occiput	Base of cere to occiput
3285	♂ ad	190	Fort Verde, Arizona	Sept. 7	1884	490	1270	350	2.5	40	21	24.5	45	69	71	33.5	30	28	35	Diameter of eye, 24. Height of cere to tip of bill, 69. See Journal.				
3669	♀ ad	274	Fort Verde, Arizona	Dec. 30	1884	535	1330	400	235	38	19	25	41	57	72	26	25	30	31	See Journal.				
3671	♀ ad	275	Fort Verde, Arizona	Jan. 1	1885	520	1255	355	215	42	19	27	46	54	70	24	31	29	25	See Journal.				
3685	♀ ad	277	Fort Verde, Arizona	Jan. 3	1885	520	1325	390	210	40	18	28	44	58	68	21	29	28	34					
3686	♂ ad	277	Fort Verde, Arizona	Jan. 4	1885	495	1240	360	215	36	15	24	42	55	60	22	27	25	23	A mated pair, shot near at same shot.				
3687	♀ ad	277	Fort Verde, Arizona	Jan. 4	1885	533	1335	388	230	31	18	30	46	58	70	25	31	29	26					
3755	♂ ad	324	Fort Verde, Arizona	Feb. 9	1885	480	1270	365	210	40	21	24	45	59	66		26							
3803	♂ ad	332	Fort Verde, Arizona	Mar. 2	1885	510	1255	355	205	40	21	24	42	61	65	21	27	25	22					
4197	♂ ad	2	Fort Verde, Arizona	Sept. 3	1885	500	1315	365	215	39	17	26	43	61	63	24	28	27	24	See Journal.				
4221	♀ ad	19	Fort Verde, Arizona	Sept. 17	1885	535	1325	385	225	44	18	30	46	63	75		31		See Journal.					
4262	♀ ad	44	Beaver Creek, Arizona	Oct. 28	1885	530	1370	390	230	44	20	29	47	65	72		30		See Journal.					
4263	♀ ad	47	Fort Verde, Arizona	Oct. 30	1885	550	1310	390	230	42	19	27	48	64	72		30		See Journal.					
4358	♀ ad	80	Fort Verde, Arizona	Dec. 26	1885	515	1310	370	230	40	18	27	46	60	66	24	28	26	23	See Journal.				
4406	♀ ad	104	Fort Verde, Arizona	Jan. 15	1886	525	1325	380	215	42	18	29	47	60	70	23	30	28	25	See Journal.				
4853	♂ juv.	219	Beaver Creek, Arizona	May 14	1886															Just able to fly.				
4969	♀ ad	41	Fort Verde, Arizona	Aug. 23	1886	540	1365	387	233	43	19	29	47	59	69	25	31	30	26	See Journal.				
4985	♂ ad	46	Beaver Creek, Arizona	Aug. 28	1886	490	1260	357	218	39	15	28	43	60	65	21	28	27	22.5	See Journal.				
4986	♀ ad	46	Fort Verde, Arizona	Aug. 30	1886	525	1275	365	230	40	21	25	43	56	67	24	29	27.3	24	See Journal.				
5077	♀ ad	118	Montezuma Well, Beaver Creek, Ariz.	Dec. 26	1886	535	1420	410	250	42	17	29	48	65	68	31	25	31	27	133				
5164	♀ ad	174	Fort Verde, Arizona	Mar. 14	1887	575	1430	405	240	42	18.5	27	47	64	72	25	30	28	25	133	23	49		
5396	♂ juv.	250	Beaver Creek, Arizona	May 20	1887															Just able to fly. Still with parents.				
5820	♀ ad	302	Fort Verde, Arizona	Dec. 12	1887	522	1330	388	220	41	16	29	46	61	72	24	29	28	24	127	22	44	51	90
5821	♀ ad	302	Fort Verde, Arizona	Dec. 13	1887	532	1350	385	230	42	17	29	48	61	70	26	32.5	29	25	130	22	45	53	91

*Distance between eyes, 25.
" " " " 30.

RETURN—Continued.

Branta canadensis occidentalis

ADDITIONAL ARTICLES.

No.	Sex and age.	Date.	Locality.	Length.	Alar expanse.	Wing.	Tail.	Culmen from frontal feathers.	Culmen measured from extreme base.	Culmen measured from nostril.	Gape.	Height of bill at extreme base.	Width of bill at base.	From tip of upper mandible to center of pupil.	From tip of bill to occiput.	From base of culmen to posterior end of mandible.	Diameter of eye.	Head of tibia to end of claws.	Tibia.	Base portion of tibia.	Tarsus.	Middle toe with its claw.	Middle claw.	Hallux with its claw.	Claw of hallux.	Pounds.	Ounces.
4365	♀ ad. Jan.	4, 1886.	Fort Verde, Arizona.	870	1740	490	160	54	63	28	63	30	26	88	125					28	91	99	14.				
5712	♂ ad. Nov.	6, 1887.	Granite Mountain, near Whipple Barracks, Arizona	990	1810	510	200.	60	71	31	55							335	165	22	93	98	15	27	8		
5827	♀ ad. Dec.	18, 1887.	Verde River, at mouth of Bears Creek, Arizona	955	1790	507	182	54	64	29	57	30	30	90	128	75	11	375	180	24	98	103	13	32	8	10	0
5904	♀ ad. Dec.	28, 1887.	Montezuma Hill, 12 m. N. of Ft. Verde, Arizona.	912	1730	485	177	53	63	28	59	29	29	86	123	72	10.5	358	169	23	90	92	13	30	8	9	0
5932	♂ ad. Jan.	4, 1888.	Beaver Creek, near Fort Verde, Arizona.	994	1825	506	195	60	72	33	68	32	28	95	134	74	9.5	365	172	29	97	99	15.5	32	9	9	0
5933	♀ ad. Jan.	7, 1888	" " " " "	910	1775	505	180	49	58	29	56	28	27	82	123	74	10.5	334	160	20	90	89	12.5	31	8.5	8	3
5934	♀ ad. Jan.	7, 1888	" " " " "	920	1755	500	185	52	62	29	57	30	29	87	126	74	10.7	347	170	21	90	91	13.5	28	9	8	9
5935	♂ ad. Jan.	7, 1888	" " " " "	993	1825	520	190	54	67	32	59	33	29	92	133	78	10.5	365	175	26	99	97	14	33	9	9	1
5936	♂ ad. Jan.	7, 1888	" " " " "	940	1800	510	199	52	65	31	58	29	29	88	127	74	11	356	175	23	94	96	14	31	9.5	8	15
5953	♂ ad. Jan.	10, 1888	" " " " "	1000	1870	530	190	56	69	31	62	32	29	94	135	76	11.5	380	180	25	101	101	15	34	9.5	9	3
5954	♀ ad. Jan.	10, 1888	Verde River at Fort Verde, Arizona.	870	1640	470	168	53	63	27	57	30	27	84	120	67	11	337	164	28	88	88	12	33	8.5	8	12
6006	♀ ad. Jan.	25, 1888	" " " " "	940	1735	485	175	57	72	33	65	32	28	96	132	77	11	360	175	25	94	95	13	33	9	7	6
6007	♂ ad. Jan.	25, 1888	" " " " "	980	1835	540	191	58	70	30	64	34	30	93	130	77	11.3	373	177	24	97	98	14	35	9	9	5
6008	♀ juv. Jan.	25, 1888	" " " " "	912	1825	520	187	53	65	28	61	29	29	87	127	77	11.2	355	173	24	90	93	13	30	9	8	15

* Height of bill measured at frontal feathers, 30. † middle toe alone, 88.

* Eviscerated

RETURN—Continued.

ADDITIONAL ARTICLES.

Accipiter cooperi (Bonap.).

Cooper's Hawk.

Length. Alar expanse. Wing. Tail. Chord of culmen and cere together. Cere. Culmen. Gape. Tip of bill to centre of pupil. Tip of bill to occiput. From base of cere to occiput. Diameter of eye. Tarsus. Middle toe with its claw. Middle claw. Hallux with its claw. Claw of hallux. Inner claw. Outer claw.

3225	Pair 76	May 2, 1884	Fort Verde, Arizona.	480	855	260	240	27	11	17	28							69	59	15	
3227	Pair 176	Aug. 20, 1884	do	430	755	235	220	23	9	16	25							65	52	13	
3329	Pair 205	Sept. 16, 1884	do	415	750	230	207	23	10.5	15	24							61	49	13	
4157	Pair 415	Aug. 6, 1885	do	430	753	234	208	24	10	16	26							62	53	14	
4202	Pair 3	Sept. 9, 1885	do	425	760	233	205	22	10	14.5	23.5							64	51	13	
5378	Pair 247	May 13, 1887	do	417	733	225	205	22	8.5	14.5	25							77	62	51.12.536.18.18.11	
5658	Pair 261	Aug. 17, 1887	do	Nestling just from nest, barely able to fly.																	
5707	Pair 284	Nov. 1, 1887	do	428	732	230	204	23	11	14.3	26							85	62	50.13.36.19.18.3.11.4	
3321	Pair 203	Sept. 15, 1884	do	485	850	263	245	26	13	17	29							70	59	16	
3342	Pair 210	Sept. 23, 1884	do	485	850	262	240	27	12	18	27							66	60	17	
3462	Pair 432	Oct. 24, 1884		480 ⁴⁹⁰ 840 ⁸⁶⁰ 263 ²⁶⁷ 235 ²⁴⁰ 28 ²⁶ 11 ^{18.5} 19 ^{28.5}														65 ⁶⁷ 58 ⁵⁹ 16 ¹⁷			
				Brides, yellow.																	
4108	Pair	June 25, 1885	Near Fort Verde, Arizona.	Shot in nest; still unable to fly.																	
4871	Pair 224	May 37, 1886	Fort Verde, Arizona.	480	840	263	225	28	11	19	28							65	58	16	
4964	Pair 37	Aug. 15, 1886		480	855	273	245	27	11	17.5	29							69	59	16.5	
4997	Pair 56	Sept. 6, 1886		462	870	270	243	28	11	19	30							68	58	15.5	
5209	Pair 187	April 1, 1887		487	870	270	250	28	12	18	28	36	60	45	9	92	68	57	14	41	22.21.13

Birds, yellow.

Parent set of 3 eggs.

RETURN—Continued.

ADDITIONAL ARTICLES.

Lanius borealis; Lanius borealis — Continued.														
No.	Sex and Age	Locality	Weight of ovary	Date	Length	Alar expanse	Wing	Tail	Culmen	Nostril	Gape	Tarsus	Middle toe and claw	Claw alone
													Length of tarsus	Length of middle toe alone
														Claw of middle toe alone
														Inner claw
														Outer claw
														Tip of bill to center of eye
														Tip of bill to base of culmen
														Base of culmen to occiput.
3692	♂ ad 279	Fort Verde, Arizona		Jan. 8 1885	270	375	115	113	11	8	13	34	39	10
3693	♂ ad 279	Fort Verde, Arizona		Jan. 9 1885	287	375	115	108	11	8	12.5	33	38	10
3694	♂ ad 281	Fort Verde, Arizona		Jan. 10 1885	275	363	111	106	11	8	13	32	37	9
3723	♂ ad 313	Oak Creek, Arizona		Jan. 16 1885	290	366	112	109	10.5	8	12.5	33	39	10
3832	♀ ad 339	Fort Verde, Arizona		Mar. 20 1885	267	370	113	95	11	8	13	33	36	10
3831	♀ ad 339	Fort Verde, Arizona		Mar. 20 1885	288	371	117	99	12.5	8.5	15	33	34	9
3902	♀ ad 4	Near Fort Lowell, Arizona		April 7 1885	280	360	112	101	11	8	14	30	34	10
3958	♂ ad 8	Bowie Station, Arizona		April 30 1885	275	367	118	104	12	8	12.5	32	35	8
4287	♀ ad 53	Fort Verde, Arizona		Nov. 13 1885	282	370	115	104	10.5	7	14	32	35	9
4353	♂ ad 80	Fort Verde, Arizona		Dec. 26 1885	289	378	118	110	11	8	14	32	38	10
4689	♀ ad 169	Fort Verde, Arizona		Mar. 28 1886	280	374	116	100	11	8	14	31	36	9
5822	♂ ad 303	Oak Creek, Arizona	6	Dec. 14 1887	280	370	120	105	11.5	8	15	34	34.5	10
5826	♂ ad 304	Fort Verde, Arizona	6	Dec. 18 1887	298	381	120	104	11.8	9	16	33	38	11

In hazel; bill black; feet and toes plumbeous
gray; scutellum edged with brown; claws blackish.
In dark hazel; bill feet black; feet
and toes brownish gray; claws blackish.

29.5 6 9.8
52 13 5.8 Albino.
59 14 6

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Sex and Age	Locality	Date	Length	Wing	Tail	Culmen	Nostril	Gape	Max. Length	Middle toe and claw	Stomach	Length of tarsus	Weight in air	Remarks
2679	♂ ad. 58	Hudson's on Ash Creek, A.T.	Mar. 24, 1884.	277	377	115	107	11	13	32	36	9			Bill dark, dusky; feet black, claws and toes, olivaceous brownish gray; claws black.
2682	♂ ad. 59	Fort Verde, Arizona	Mar. 28, 1884.	280	372	117	111	12	14	31	36	8			Bill dark, dusky; feet black, claws and toes, olivaceous brownish gray; claws black.
2683	♀ ad. 58	Fort Verde, Arizona	Mar. 28, 1884.	275	368	108	101	11	14	30	38	10			Bill dark, dusky; feet black, claws and toes, olivaceous brownish gray; claws black.
2744	♀ ad. 66	Fort Verde, Arizona	April 15, 1884.	280	368	110	101	11.5	8	14	33	37	10.5		
2755	♂ ad. 67	Copper Canyon near Ft. Verde, A.T.	April 18, 1884.	283	360	107	102	10.5		14	29.5	38	9		
2788	♂ ad. 71	Agua Fria, near Skindings rancho, A.T.	April 25, 1884.	287	368	113	109	11.5		14	30	35.5	10		
2789	♂ ad. 72	do do	April 25, 1884.	286	378	113	103	11		14	33	38	9		
2790	♂ ad. 72	Hudson's on Ash Creek, A.T.	April 25, 1884.	280	371	112	105	11.7		15	33.5	37	9.5		
2791	♂ ad. 72	Hudson's on Ash Creek, A.T.	April 25, 1884.	277	367	112	105	11		13.8	31	37	8.4		
2792	♀ ad. 72	Agua Fria near Skindings rancho, A.T.	April 25, 1884.	282	375	112	99	11.5		14.7	32.5	35	9		
2795	♂ ad. 72	Cherry Creek near Ft. Verde, A.T.	April 26, 1884.	274	360	107	94	10.3		14	32	35.5	8.2		
2796	♂ ad. 72	Cherry Creek near Ft. Verde, A.T.	April 26, 1884.	282	377	116	101	11.3		13.8	31.5	39	10		
2836	♀ ad. 77	Fort Verde, Arizona	May 2, 1884.	280	375	112	100	11		13.5	34.5	36.5	9.5		
2881	♂ ad. 23	Hudson's on Ash Creek, A.T.	May 19, 1884.	280	373	114	104	11.5		14	33	38	10		
2882	♂ ad. 23	do do	May 19, 1884.	285	375	112	102	11.2		14	31	36	9		
2883	♀ ad. 23	do do	May 19, 1884.	272	365	113	95	11.5		14	30	38	9		
2884	♀ ad. 23	do do	May 19, 1884.	283	374	117	103	11.4		15	31	36	8.5		
3021	♂ ad. 111	Fort Verde, Arizona	June 16, 1884.	280	380	114	107	12		14	33	35	9		
3091	♀ ad. 135	Fort Verde, Arizona	July 11, 1884.	285	360	111	104	11.5	8.7	13	31	35	9		In exceedingly worn breeding plumage, its breast denuded of feathers.
3092	juv. 135	Fort Verde, Arizona	July 12, 1884.	212	315	78	76	7.2		12	28	33	6	2.2	Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3094	juv. 136	Fort Verde, Arizona	July 12, 1884.	205	312	95	71	8.7		11.5	27	31	6.5	2.1	Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3095	juv. 136	Fort Verde, Arizona	July 12, 1884.	175	275	83	54	9		11	26	30	6	1.5	Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3096	♀ juv. 136	Fort Verde, Arizona	July 12, 1884.	210	312	94	72	10		12	27	30	7	2.3	Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3097	juv. 136	Fort Verde, Arizona	July 12, 1884.	187	285	90	67	9		10.5	23.5	30	6		Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3098	juv. 136	Fort Verde, Arizona	July 12, 1884.	199	298	91	65	10		11	25	31	6.5	1.9	Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3175	♂ ad. 152	Fort Verde, Arizona	July 29, 1884.	280	365	110	98	11	8	12.5	33	39	10		Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3337	♂ ad. 209	Fort Verde, Arizona	Sept 22, 1884.	290	377	112	102	11.5	8	14.5	34	39	9.5		Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3493	♂ ad. 247	Bakai village, Guntur Co. A.T.	Nov. 10, 1884												Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3494	♂ ad. 247	Bakai village, Guntur Co. A.T.	Nov. 11, 1884												Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3654	♂ ad. 261	Fort Verde, Arizona	Dec 17, 1884.	275	366	110	101	11	8	13	32	38	8.5		Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3655	♀ ad. 261	Fort Verde, Arizona	Dec 24, 1884.	285	368	113	107	11	8.5	13	32	35	9		Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.
3660	♀ ad. 269	Fort Verde, Arizona	Dec 25, 1884.	272	372	116	110	11	8	12	32	35.5	10		Young of the year, the dusky brown, brown and feet flesh color, with brown markings; claws dusky brownish.

RETURN—Continued.
Himantopus mexicanus.
 ADDITIONAL ARTICLES.
 Black-necked Still.

Number	Sex and age	Date	Locality	Page in Journal	Length to end of claws	Length	Alar expanse	Wing	Tail	Culmen	Gape	Tip of bill to centre of pupil.	Tip of bill to occiput	Base of bill to occiput	Head of tibia to end of claw of longest claw toe	Fibula	Bas. portion	Tarsus	Middle toe and claw	Middle claw alone	Diameter of eye
5229	♂ ad.	April 13, 1887	Rock Lake 2 1/2 m. North of Fort Verde, Arizona	196	675	385	750	248	83	68	74	89	110	40	303	136	89	123	45	5.7	9
5270	♂ ad.	May 3, 1887	Fort Verde, Arizona	225	557	369	727	241	85	61	68	81	100	39	280	124	85	114	44	6	8.8
5271	♂ ad.	"	"	"	549	358	720	239	77	62.5	68	82	101	37	283	129	84	113	42	6.1	9
5272	♂ ad.	"	"	"	550	374	720	238	82	61	68	84	103	42	280	126	82	110 44	44	6	8.7
5273	♀ ad.	"	"	"	541	360	700	226	73	65	72	85	104	37	269	121	76	108	43	6	8.3
5274	♀ ad.	"	"	"	490	355	704	228	81	58.5	67	79	97	38	225	103	62	85	40	4.2	8.2
5275	♀ ad.	"	"	"	535	364	692	221	75	67	75	87	107	40	270	116	77	111	42	5	8.5
5276	♀ ad.	"	"	"	545	370	723	233	81	63	71	85	104	41	272	122	80	109	42	5	8.2
5277	♀ ad.	"	"	"	535	360	704	228	77	62	70	83	101	38	272	121	82	110	42	5.2	8.5

RETURN—Continued.

ADDITIONAL ARTICLES.

No.	Sex & Age	Page in Journal	Locality.	Date	Length	Alar expanse	Wing	Tail	Culmen & Cere	Cere alone	Culmen	Gape	Tarsus	Middle toe with its claw	Middle claw	Hallux with its claw	Chew of hallux	Tibia	Middle toe alone	Diameter of eye	Tip of bill to center of pupil	Tip of bill to cere	Tip of cere to occiput	Inner claw	Outer claw
4265	♀ juv. 49		Fort Verde, Arizona	June 9 1885	280	600	203	138	16.5	4	13.5	18	37	33	11										
4324	♀ ad. 74		Fort Verde Arizona	Dec. 14 1885	283	610	198	142	14	4	12	17	37	30	10				22						
4713	♂ ad. 176		Fort Verde Arizona	April 4 1886	266	580	196	134	15.5	4	12	17	36	31	10										
5010	♂ juv. 61		Fort Verde Arizona	Sept. 14 1886	270	580	195	138	14.4	11	18	37	30	9.2	20	9	50			8					85.75
5839	♂ ad. 305		Fort Verde Arizona	Dec. 20 1887	267	570	190	135	13	2.5	11	18	36	31	10	19	9.5	47			24	41	35	10	8

RETURN—Continued.

ADDITIONAL ARTICLES.

Tinnunculus sparverius, Linn. *T. virens*, Linn.

No.	Sex and Age	Page in Journal	Locality	Date	Length	Alar expanse	Wing	Tail	Culmen + Nostril	Culmen	Gape	Tarsus	Middle toe and its claw	Bill + Tarsus	Remarks	
2687	♂ ad 58		Fort Verde Arizona	Apr 1 1884	265	390	170	135	145	3.8	11	16.6	33	31	7.5	Immature, long L. 1 horned, on back standing also, nine, to form on both mandibles. C. 10 and 11 orange-yellow, claws black.
2732	♂ ad 64		Fort Verde Arizona	April 12 1884	278	585	190	140	16	5	12	17	36	34	10.3	
2771	♀ ad 69		Whipple Barracks Arizona	April 22 1884	275	588	188	138	15.5	4	11.5	18	36	31	9	
2793	♀ ad 73		Cherry Creek Ft. Verde, A.T.	April 26 1884	290	618	202	145	16	5	12.5	18	37	33	10	
2811	♀ ad 74		Fort Verde Arizona	April 29 1884	280	600	192	135	16	4.2	13	18	38.5	31	9	
2812	♀ ad 74		Fort Verde Arizona	April 29 1884	285	630	209	140	15.5	4	13	18	36.5	32	10	
2822	♂ ad 76		Fort Verde Arizona	May 1 1884	262	583	187	125	16	7	12.5	17	38.5	32	9	
2833	♀ ad 77		Fort Verde Arizona	May 2 1884	270	605	188	133	15	4	12	18	35	32	9	A mated pair, looking for a nesting place among some old dead trees. Contained an egg in its vent, which was nearly ready for extension.
2834	♂ ad 77		Fort Verde Arizona	May 2 1884	275	585	194	142	10.5	5	12	17	37	32	10	
2835	♀ ad 77		Fort Verde Arizona	May 2 1884	265	585	188	125	15	4	12.5	18	35	33	10	
2902	♂ ad 20		Fort Verde Arizona	May 23 1884	260	572	183	130	10.5	4.6	12.5	18	35	32	10	See Journal for colors of parts.
2944	♂ ad 42		Fort Verde Arizona	May 28 1884	270	567	180	133	16	5	11.2	17	36	32.5	10.5	See Journal for colors of parts.
3128	♂ juv. 143		Fort Verde Arizona	July 15 1884	270	585	185	135		4	11.5	17.5	36	33	10	See Journal for colors of parts.
3129	♀ juv. 143		Fort Verde Arizona	July 18 1884	270	587	185	130		4	12	20	38	31	9	See Journal for colors of parts.
3310	♂ juv. 199		Fort Verde Arizona	Sept. 11 1884	270	585	187	130	15	4	11.5	17	40	31	10	
3322	♀ juv. 203		Fort Verde Arizona	Sept. 15 1884	280	610	203	142	16	4.5	12	19	36	32	10	See Journal for colors of parts.
3323	♂ juv. 203		Fort Verde Arizona	Sept. 15 1884	267	570	192	132	15.5	4	11.5		37	32	10	See Journal for colors of parts.
3324	♂ juv. 204		Fort Verde Arizona	Sept. 15 1884	265	565	188	134	broken	7	broken	18	35	32	9.5	See Journal for colors of parts.
3325	♂ juv. 204		Fort Verde Arizona	Sept. 15 1884	275	593	200	138	15.5	5	11	19	37	32	9	See Journal for colors of parts.
3334	♂ juv. 207		Fort Verde Arizona	Sept. 19 1884	277	570	195	138	15	4.5	12	17.5	37	32	8.5	
3411	♂ ad 431		Fort Apache Arizona	Oct. 13 1884	272	483	192	136	16	4.5	12.5	17.5	37.5	32	10	
3424	♂ ad 431		Gila River 10 m. below San Carlos, A.T.	Oct. 17 1884	267	565	177	132	14.5	4	12	16.5	37	31	10.5	Bill, legs, & feet orange yellow. Claws black. Bill plumbeous, shading to black at tip.
3436	♀ juv. 432		Coyote Springs near Globe City, A.T.	Oct. 19 1884	277	615	187	136	14	4	11	19	37	33	10.5	Stomach filled with grasshoppers. Shot on a tape. See Journal.
3501	♂ ad 247		Superior, Arizona, Gila River, A.T.	Nov. 11 1884												
3617	♂ ad 247		Fort Verde Arizona	Dec. 6 1884	270	585	192	146	14	4	12	16.5	39	33	10.5	
3632	♂ ad 266		Fort Verde Arizona	Dec. 17 1884	273	575	190	140	15	4	12	18	38	31	7.5	
3756	♀ ad 324		Fort Verde Arizona	Feb. 9 1885	267	588	200	138	15	4	13	18	36	33	10	
3758	♂ ad 324		Fort Verde Arizona	Feb. 9 1885	272	575	147	135		4	12	16	35	31	10	
3775	♂ ad 327		Fort Verde Arizona	Feb. 19 1885	262	555	182	131	15	4	12	17	37	35	11	
3814	♀ ad 332		Fort Verde Arizona	Mar. 4 1885	280	610	202	138	15	4	12.5	17	37	33	10	
3830	♀ ad 339		Fort Verde Arizona	Mar. 20 1885	280	593	195	138	16	4	13	18	36	32	10	
3833	♀ ad 339		Fort Verde Arizona	Mar. 20 1885	266	590	193	125	16	4	13	19	36	31	11	

Note.—Other specimens collected are 39968, 39978, 52428, all in downy plumage, and No. 40668, a half-fledged nestling. These comprise all specimens taken.

RETURN—Continued.

ADDITIONAL ARTICLES.

<i>Buteo borealis calurus</i> (Cass.). Western Red-tail. (Young.)																								
No.	Sex and age.	Page in Journal	Locality. Date.	Length.	Alar expanse.	Wing.	Tail.	Culmen and cere, chord taken together.	Cere.	Culmen (chord).	Gape.	Tip of bill to centre of pupil.	Tip of bill to occiput.	Basal of cere to occiput.	Diameter of eye.	Iris.	Tarsus.	Middle toe with its claw.	Middle claw.	Hallux with its claw.	Claw of hallux.	Inner claw.	Outer claw.	Weight, lbs., avoird.
2718	♂ juv. 62		Fort Verde, Arizona. Apr. 10, 1884	547	1275	386	245	35	14	24.4	41						83	61	23					
3352	♂ juv. 212		Fort Verde, Arizona. Sept. 25, 1884	553	1285	335	255	36	15	25	43						88	67	23					
4173	♂ juv. 424		Fort Verde, Arizona. Aug. 24, 1885	540	1280	393	240	35	14.5	25.5	45						85	67	23					
4178	♂ juv. 425		Fort Verde, Arizona. Aug. 27, 1885	545	1290	410	270	34	15	23.5	42						87	64	23					
4250	♂ juv. 39		Fort Verde, Arizona. Oct. 16, 1885	590	1360	430	265	39	15	26	43	Middle toe alone, 47.					86	67	24					
4401	♂ juv. 103		Fort Verde, Arizona. Jan. 14, 1886	530	1240	390	245	33	12	23	43	Middle toe alone, 40.					80	60	22			29	26.5	18
4597	♂ juv. 148		Peck's Lake, Verde Valley, Arizona. Mar. 9, 1886	555	1270	390	235	36	15	24	42						87	64	22			28	27	18
5048	♂ juv. 76		Fort Verde, Arizona. Oct. 17, 1886	570	1290	395	250	37	14	24	41						88	67	23.5					
5067	♂ juv. 107		Fort Verde, Arizona. Dec. 1, 1886	560	1335	418	244	37	14	26	43						90	70	24	50	30	28.5	19	
5067	♂ juv. 107		Fort Verde, Arizona. Dec. 1, 1886	570	1370	420	240	38	14	26	47						95	67	23	54	30	28	19	
5073	♂ juv. 110		Fort Verde, Arizona. Dec. 11, 1886	535	1310	405	250	36	15	24	43						122	86	62	22	48	27	25	18
5091	♂ juv. 130		Fort Verde, Arizona. Jan. 16, 1887	553	1310	405	245	35	14.5	23	42						121	87	65	23	53	29	27	18.5
5682	♂ juv. 278		Fort Verde, Arizona. Oct. 25, 1887	558	1280	387	234	36	14	25	45	52	83	67	14	120	90	65	24	55	29	28	19	
3351	♀ juv. 212		Fort Verde, Arizona. Sept. 25, 1884	575	1350	415	265	37	16	26.5	45						87	67	25					
3593	♀ juv. 235		Prescott, Arizona. Nov. 25, 1884	580	1380	420	265	35	16	23	43						89	69	24			31		
3887	♀ juv. 4		Fort Lowell, Arizona. Apr. 5, 1885	580	1350	410	260	40	16	28	47						89	64	24					
4176	♀ juv. 425		Fort Verde, Arizona. Aug. 25, 1885	600	1370	425	267	40	17.5	26	50						89	68	25					
4215	♀ juv. 13		Oak Creek, Arizona. Sept. 13, 1885	590	1395	425	260	39	15	26	48						90	70	25.5					
4241	♀ juv. 36		Fort Verde, Arizona. Oct. 10, 1885	600	1410	430	260	40	17	27	46	Middle toe alone, 45.					93	71	26					
4336	♀ juv. 78		Fort Verde, Arizona. Dec. 18, 1885	620	1450	445	270	40	16	27	46	Middle toe alone, 49.					95	71	25					
5004	♀ juv. 58		Fort Verde, Arizona. Sept. 7, 1886	600	1400	430	268	41	17	28	45						87	74	26			32	29	20
5060	♀ juv. 104		Fort Verde, Arizona. Nov. 25, 1886	600	1405	440	290	38	15	27	46	Hind toe without claw, 30.					87	65	24	54	30	28	19	
5072	♀ juv. 109		Fort Verde, Arizona. Dec. 11, 1886	585	1355	412	255	39	15	27	46						135	85	70	26	56	32	29.5	20
5245	♀ juv. 211		Upper Verde Valley, Arizona. Apr. 16, 1887	600	1383	425	266	41	15.5	28	49						123	92	70	26	58	31	30	19

* In full 1st autumn's plumage; raised from nestling.

RETURN—Continued.

ADDITIONAL ARTICLES.

Buteo borealis calurus (Pass.).					Western Red-tail. Adults.																						
No.	Sex and Age.	Page in Journal.	Locality.	Date.	Length.	Wing expanse.	Wing.	Tail.	Culmen & cere, chord taken together.	Cere.	Culmen.	Gape.	Tip of bill to centre of pupil.	Tip of bill to occiput.	Base of cere to occiput.	Diameter of eye.	Tibia.	Tarsus.	Middle toe with its claw.	Middle claw (chord).	Hallux and its claw.	Claw of hallux (chord).	Inner claw (chord).	Outer claw (chord).	Weight (Avim.).		
3525	♂ ad.	250	Grand Cañon, Colorado R., Arizona.	Nov. 17, 1884.	535	1270	395	230	36	14	25	42							85	62	22	51	29	27	18		
4598	♂ ad.	154	Fort Verde, Arizona.	Mar. 12, 1886	540	1290	400	230	38	17	26	42							84	58	23	50	29	28	19		
5066	♂ ad.	106	Fort Verde, Arizona.	Dec. 1, 1886	560	1335	418	244	37	14	26	43							90	70	24	50	30	28	19		
5075	♂ ad.	111	Montezuma Well, Arizona.	Dec. 13, 1886	545	1290	400	242	37	15	25	44							117	85	64	23	53	29	27	18	
5088	♂ ad.	130	Oak Creek, Arizona.	Jan. 6, 1887	525	1265	395	225	34	13	24	40							120	87	62	22	51	29	26	17	
5079	♂ ad.	119	Fort Verde, Arizona.	Dec. 27, 1886	535	1270	400	240	37	14	25	42							111	83	60	22	48	28	26	18	
5092	♂ ad.	131	Fort Verde, Arizona.	Jan. 16, 1887	532	1295	400	234	34	13	23	42							115	86	65	24	54	31	28	19	
5115	♂ ad.	157	Peck's Lake, Verde Valley, Arizona.	Jan. 24, 1887	550	1300	410	250	35	14	24	41							118	85	60	22	54	28	26	17	
5208	♂ ad.	186	Fort Verde, Arizona.	Mar. 31, 1887	550	1335	408	230	37	15	25	54	52	84	63				117	87	65	24	53	30	28	18.5	
5514	♂ ad.	253	San Francisco Mountain, Arizona	June 13, 1887	533	1220	382	229	36	13	26	44							113	83	65	23	51	28	27	17	
5620	♂ ad.	264	Peck's Butte, Mogollon Mountains, Arizona.	Aug. 20, 1887	545	1300	400	230	36	14	25	43							110	85	58	22	48	28	26	17	
5711	♂ ad.	285	Fort Verde, Arizona.	Nov. 5, 1887	545	1290	396	228	38	16	27	44	53	83	62	13	116	90	67	25	56	31	5	18.5			
5734	♂ ad.	298	Fort Verde, Arizona.	Nov. 26, 1887	527	1270	400	223	36	14	25	44	50	83	60	14	112	86	63	22	51	29	27	18			
5937	♂ ad.	313	Fort Verde, Arizona.	Jan. 7, 1888	542	1290	400	230	37	16	25	43	51	82	59	13	118	87	66	25	55	30	28	18.5	2		
3378	♀ ad.	430	General Shingo, Mogollon Mts., Arizona.	Oct. 5, 1884	580	1360	420	260	37	15	26	45							84	69	24						
3694	♀ ad.	281	Fort Verde, Arizona.	Jan. 10, 1885	580	1400	435	245	38	15	28	47							98	70	26						
3822	♀ ad.	336	Fort Verde, Arizona.	Mar. 14, 1885	570	1385	438	235	40	18	28	47							80	64	23			31	28	18	
3836	♀ ad.	2	Cienega, 11 m. W. of Fort Verde, Arizona.	Mar. 25, 1885	543	1400	430	240	40	16	28	45							88	65	24						
4361	♀ ad.	84	Fort Verde, Arizona.	Dec. 29, 1885	615	1435	445	250	40	16	27	46							91	67	24			32	29	20	
5071	♀ ad.	109	Fort Verde, Arizona.	Dec. 11, 1886	590	1425	445	250	41	15	30	47							93	73	25	57	33	31	20		
5087	♀ ad.	120	Indian Garden, Oak Creek, Arizona.	Jan. 6, 1887	577	1405	428	243	39	15	28	46							127	90	67	25	56	33	31	19	
5207	♀ ad.	186	Fort Verde, Arizona.	Mar. 31, 1887	580	1400	435	245	39	15	28	46	55	90	65	14	123	90	63	23	59	32	29	19	34		
5244	♀ ad.	211	Upper Verde Valley, Arizona.	Apr. 16, 1887	560	1383	423	245	39	14	28	47							14	106	88	66	24	55	31	30	19
5511	♀ ad.	253	San Francisco Mountain, Arizona	June 12, 1887	573	1390	447	238	40	15	28	49							121	83	70	24	60	32	30	19	
5554	♀ ad.	262	Peck's Butte, Mogollon Mts., Arizona	July 15, 1887	576	1365	425	245	38	14	27	47							115	87	64	24	54	32	29	19	
5555	♀ ad.	262	Peck's Butte, Mogollon Mountains, Arizona	July 17, 1887	575	1420	444	255	40	15	28	46							127	87	68	23	57	30	29	18	
5683	♀ ad.	278	Fort Verde, Arizona.	Oct. 25, 1887	580	1400	442	240	38	14	26	54	85	64	14	122	92	70	25	56	32	30	5	19	5		
5706	♀ ad.	284	Fort Verde, Arizona.	Nov. 1, 1887	590	1410	437	255	38	15	27	46							124	91	68	25	55	30	5	19	
5818	♀ ad.	302	Box Canon, Upper Verde Valley, Arizona.	Dec. 8, 1887	575	1385	423	250	39	15	28	45	53	87	65	14	118	90	65	25	56	32	30	19	3		

*Dark phase.

(Over)

† Toe alone, 40. † Toe alone, 47.

RETURN—Continued.

ADDITIONAL ARTICLES.

Symphoricarpha semipalmata

No.	Sex and Age.	Locality	Length, measured from tip of bill to end of claw.	Alar expanse.	Wing.	Tail.	Bill, measured from base of culmen.	Culmen from nostril.	Gape.	Height of bill at base.	Width of bill at base.	Diameter of eye.	From tip of bill to centre of pupil.	From tip of bill to occiput.	From base of bill to occiput.	From head of tibia to end of claws.	Tibia.	Bare portion of tibia.	Tarsus.	Middle toe with its claw.	Middle claw.	Hallux with its claw.	Claw of hallux.	Weight, oz., avoird.	Date	
6288	♂ ad.	Verde River at Fort Verde, Arizona.	462	375	695	212	87	61	47	67	11	10	7.2	81	100	40	190	86	37	65	39	7	13.5	4	10½	May 1, 1888
6289	♂ ad.	do	478	380	720	220	86	62	48	69	11.7	10.3	7.2	82	102	40	197	89	41	67	40.5	7	13.5	4.3	10½	" " "
6290	♂ ad.	do	477	389	739	225	89	64	48	72	11	8.8	7.2	83	104	42	198	91	41	67	41	6.5	14	4.8	10¾	" " "
6291	♂ ad.	do	467	373	706	212	83	57	45.5	67	10.3	9.2	7.2	80	101	44	195	87	41	67	40.5	6.5	13	3.8	10½	" " "
6292	♂ ad.	do	460	377	710	217	86	57.5	45	68	10.7	9	7.2	80	100	42.5	191	85	36	66	40	6.5	13.5	3.8	11¼	" " "
6293	♀ ad.	do	493	402	762	228	86	64	50.5	73	11.5	10	7.2	87	107	45	202	90	40	69	45	7	15.5	4.6	14½	" " "
6294	♂ ad.	do	480	390	736	235	90	61	48	71	11	8.8	7.2	85	105	44	202	93	40	70	41	6.2	14	4	10½	" " "
6295	♀ ad.	do	480	391	739	236	88	59	47	68	11	9.9	7.2	80	99	41	199	90	40	65	42	7	14	4.9	12	" " "
6296	♀ ad.	do	490	400	738	233	91	60	46	71	12	9	7.2	82	102	43	201	93	42	70	41	6.6	14.5	4.5	13	" " "
6297	♀ ad.	do	504	401	745	232	85	63	50	75	11.3	10.4	7.2	87	109	44	206	93	43	72	42	7	15	4.6	13	" " "
6298	♂ ad.	do	472	382	692	209	81	60	48	70	11	8.5	7.2	82	102	42	192	87	40	67	39	6.9	14	4.1	11	" " "
6299	♂ ad.	do	476	383	712	215	84	61	46	69	11	8.7	7.2	81	101	42	196	88	38	68	40	6.4	14	4	12	" " "

The above 12 specimens were shot from a flock of less than twenty individuals. They uttered loud calls when flying and, when excited, upon the ground. Their loud, plaintive whistle could be heard distinctly half a mile. When some of their number had been killed or wounded, the flock would sometimes return to the spot after circling about high in the air of several minutes. When first fired at, the unwounded birds merely arose a few yards with loud cries, and immediately settled down among their maimed companions, nodding their heads decidedly. At the second shot they flew a little way down the stream, where I killed four at one shot. Still they were not shy, and I followed them a mile and shot at them several times, killing five more. Wounded ones would separate from the flock and circle wildly about uttering plaintive cries. When the flock arose and became clamorous the wounded ones would often essay to join them.

Their irides are dark hazel. Bill olive-gray at base, becoming dark plumbeous terminally. The legs and feet are plumbeous; claws dusky.

Stomachs empty, except No. 6290, which contained several small univalve sea shells.

4119	♀ ad. Ft. Verde, A.T.	485	402	770	228	96	60	68	42	73	42	6.5	14	4											
6360	♀ ad. Verde River at Fort Verde, June 13, 1888	505	411	766	226	94	65	51	74	12	9.5	7.2	88	107	42	205	95	46	71	41	6.1	16	4.3	11	May 13, 1888

July 18, 1885. Bill grown 40 mm. inner web, 7.5; outer web, 11. Inner claw, 5.5; outer claw, 5. See Journal, Vol I, p. 389